

# Design Document v1.3

April 26, 2017

## I. Revision Signatures

The following asserts that all team members have read the document and assert that the information contained within this document is complete and correct.

<b>Name</b>	<b>Signature</b>	<b>Date</b>
James Stewart		
Quang Nguyen		
Michael Giba		
Thaddeus Rix		
Son Nguyen		

## II. Revision History

All revision history of this document is listed below.

<b>Version</b>	<b>Changes</b>	<b>Date Modified</b>
Version 1.0	<ul style="list-style-type: none"><li>● Initialized draft</li></ul>	December 17 <sup>th</sup> , 2016
Version 1.1	<ul style="list-style-type: none"><li>● Added system architecture diagram</li><li>● Edited minor text</li></ul>	January 5 <sup>th</sup> , 2017
Version 1.2	<ul style="list-style-type: none"><li>● Added and remade some diagrams</li><li>● Updated screenshot to current version of SRS</li></ul>	April 18 <sup>th</sup> , 2017
Version 1.3	<ul style="list-style-type: none"><li>● Revised content</li></ul>	April 26 <sup>th</sup> , 2017

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# 1. Introduction

## 1.1 Purpose

This document will contain the design specifications and illustrations for the new SRS submission-review system and website. This document will provide the team guidance during development of the system's components, architecture, interfaces, and database.

## 1.2 Project Overview

The Michael and Sally McCracken Student Research Symposium (SRS) is an event at TCU that invites undergraduate and graduate students to showcase their research projects to their colleagues and professors. The projects can be involved in any of the Science and Engineering disciplines at TCU, including interdisciplinary. The students participating will present their research projects inside of the Tucker Technology Center on a predetermined date.

TCU's existing SRS site provides an outdated submission-review system for the SRS, an event growing in popularity. The previous system was mostly a front-end to a manual collection of procedures to receive, review, and present research projects. There is a growing need to make a more robust system that can provide smart interfaces for various users that will allow for secure submitting, voting, and administrating.

The new system would provide a host of automated processes that would facilitate in the managing of the SRS event from year to year. This is possible due to a myriad of free technologies such as Django that will allow for a more seamless experience participating in and managing SRS.

## 1.3 Document Overview

- **Section 2** - Design Constraints
- **Section 3** - System Architecture
- **Section 4** - Database Design
- **Section 5** - UML Models
- **Section 6** - User Interface
- **Section 7** - Glossary of Terms
- **Appendix A** - Use Cases

## 2. Design Constraints

### 2.1 Assumptions and Dependencies

It is assumed that a user will have a device equipped with a web browser and access to the internet. The system is dependent on a user submitting an abstract before a poster can be submitted. The system is dependent on the primary author being a TCU student.

### 2.2 General Constraints

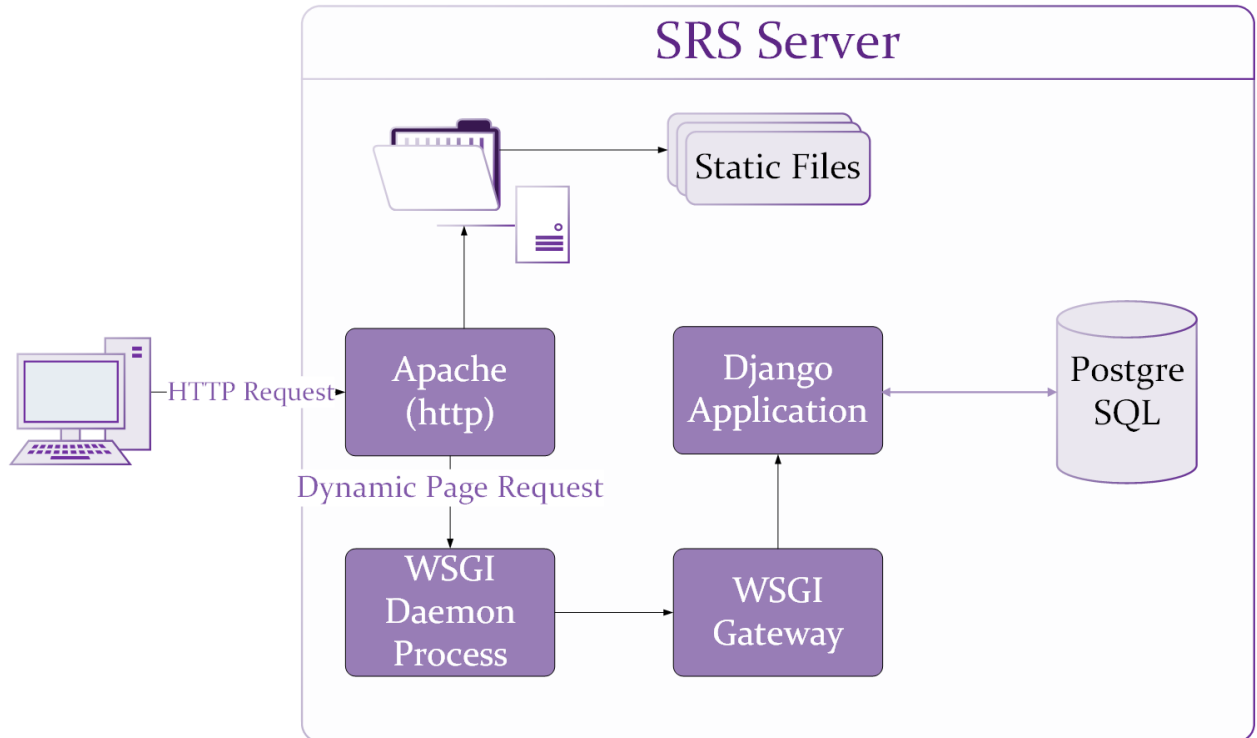
- The SRS website should be fully operational by February 2017
- Django version used is 1.9.10. This determines many of the commands available to the developer, especially in terms of interfacing between Django and the database
- Submitter is only allowed to upload poster in PDF format
- Different types of administrators have different constraints in the admin panel

### 2.3 Development Methods

Development methodology of the product is agile. Each tool and component of the site and the corresponding admin view is a “feature” that is developed, tested, and released before the next feature is created. This ensures extensive testing for early features that are more integral to the system design and permits a greater amount of feedback from clients, helping with analysis of requirements.

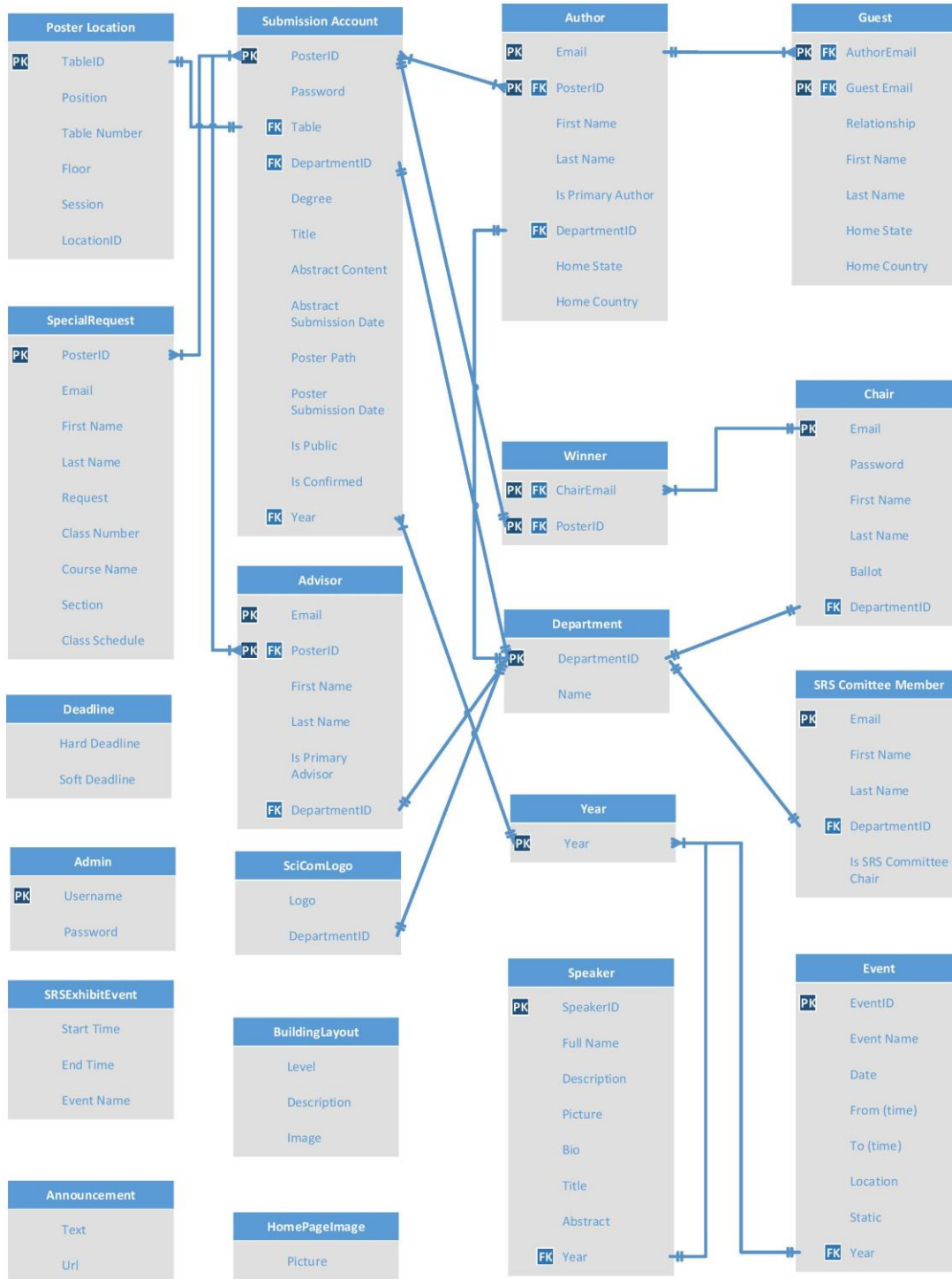
## 3. System Architecture

### 3.1 Diagram





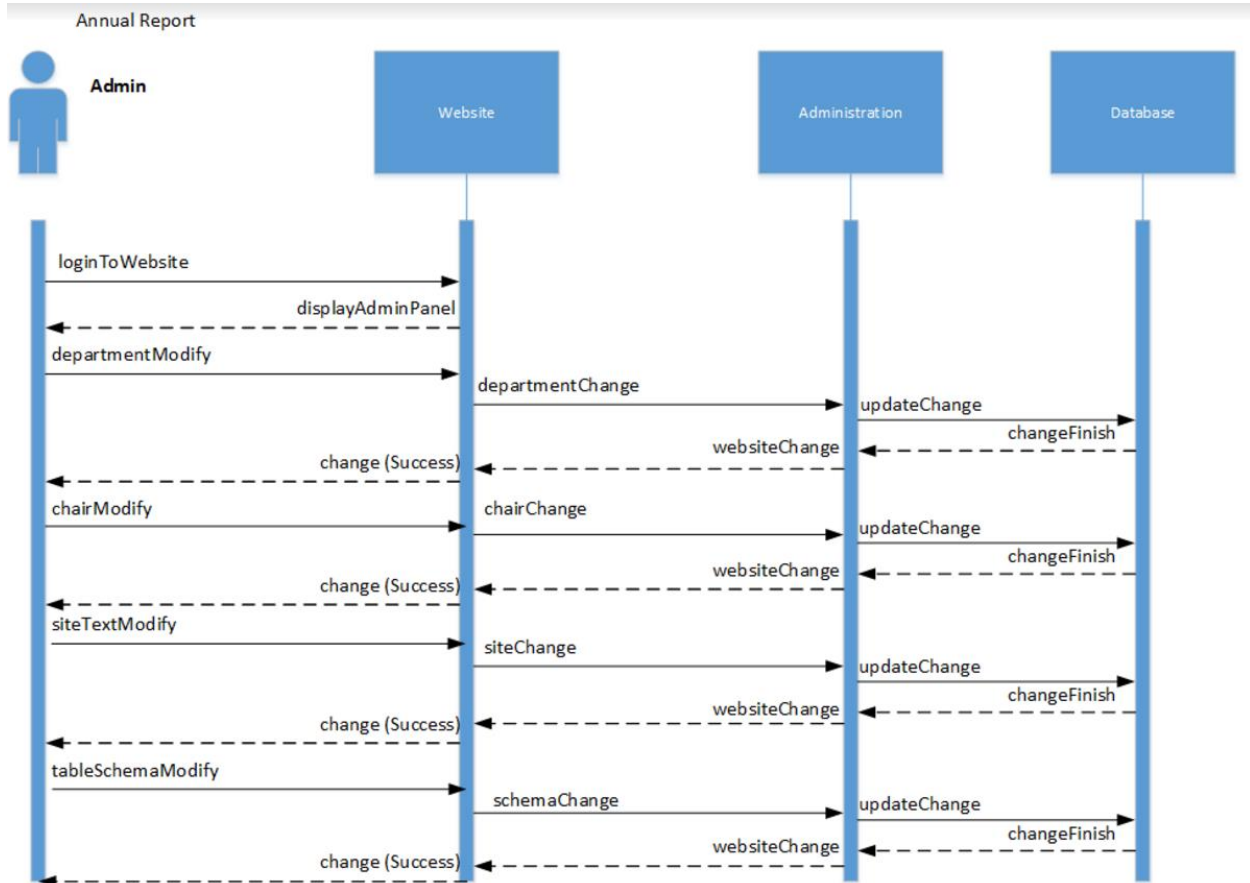
## 4. Database Design



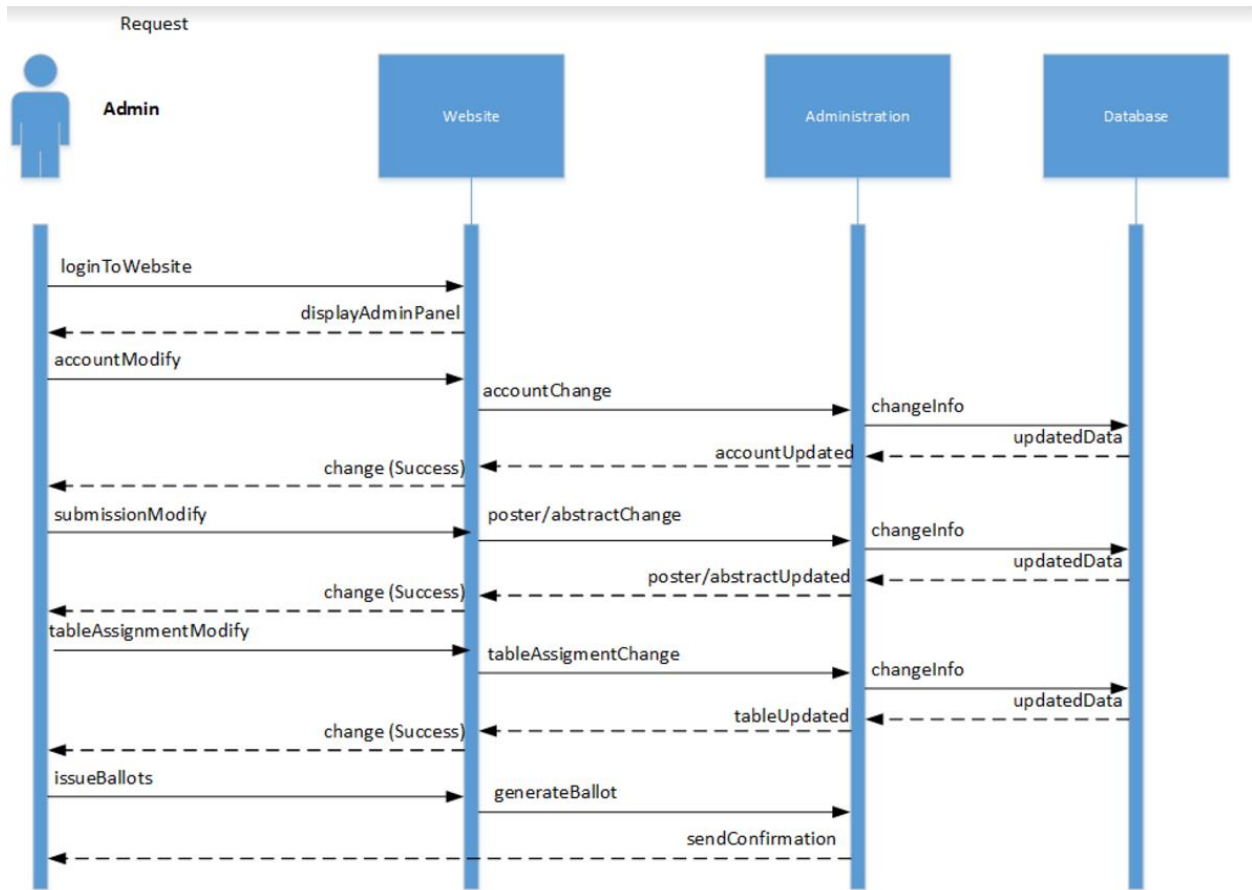
## 5. UML Models

### 5.1 Sequence Diagrams

#### 5.1.1 Admin Annual Setup

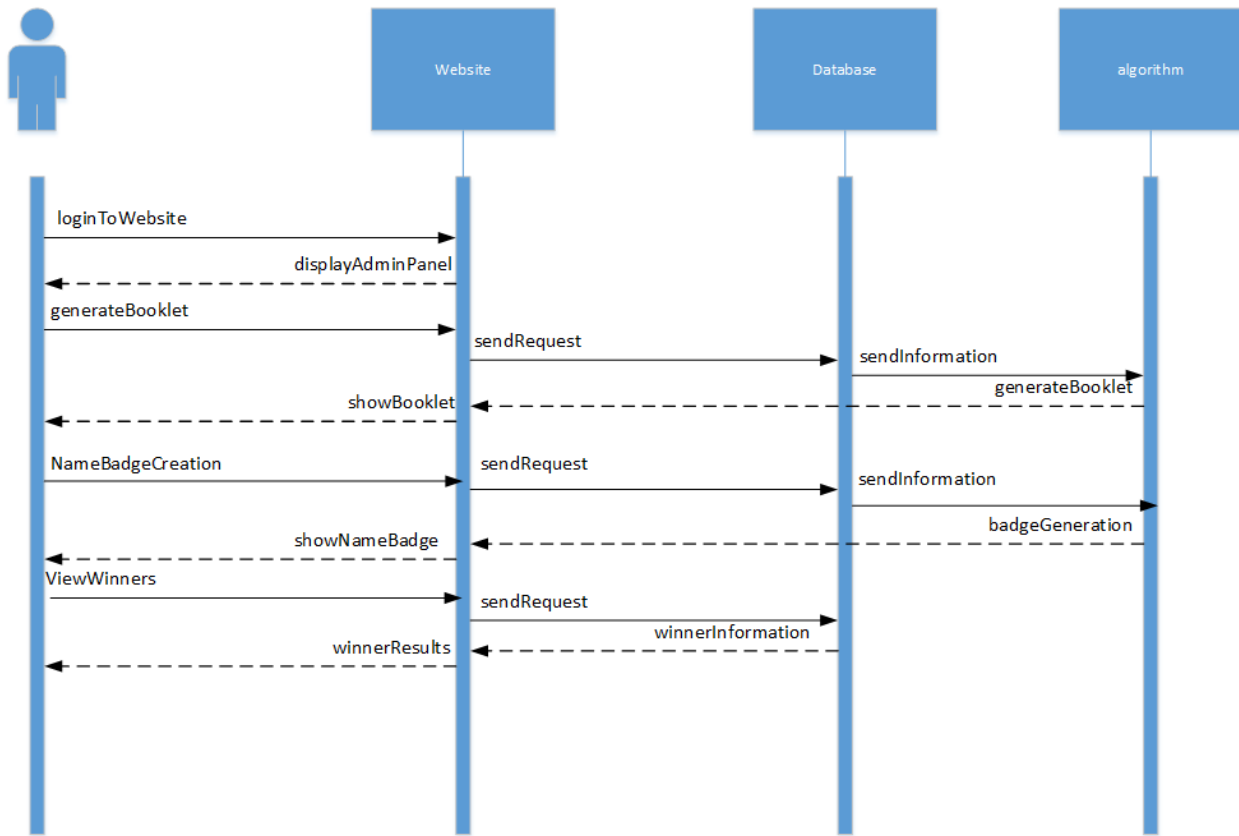


### 5.1.2 Admin Request



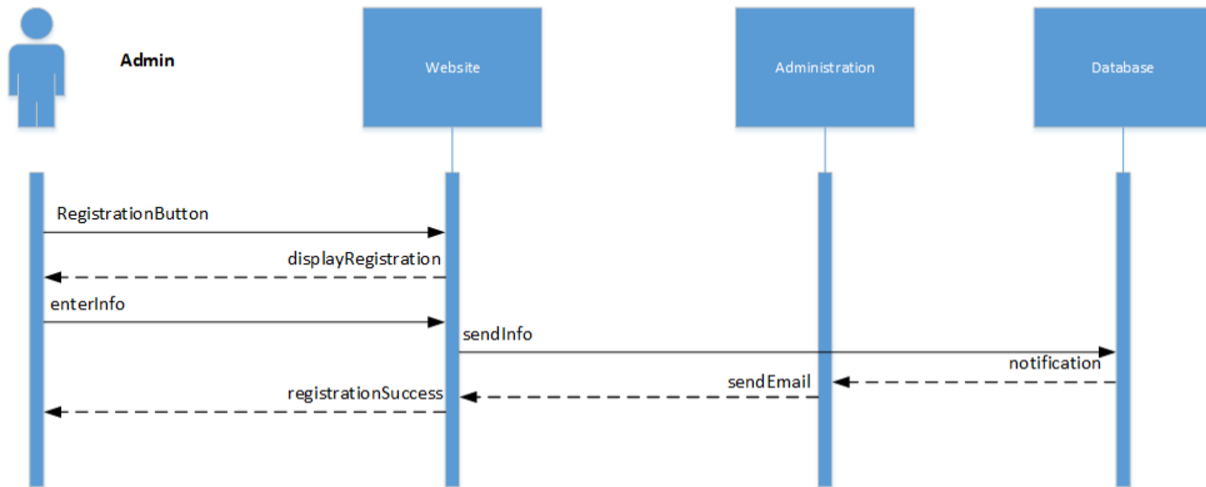
### 5.1.3 Admin Reporting

Admin reporting



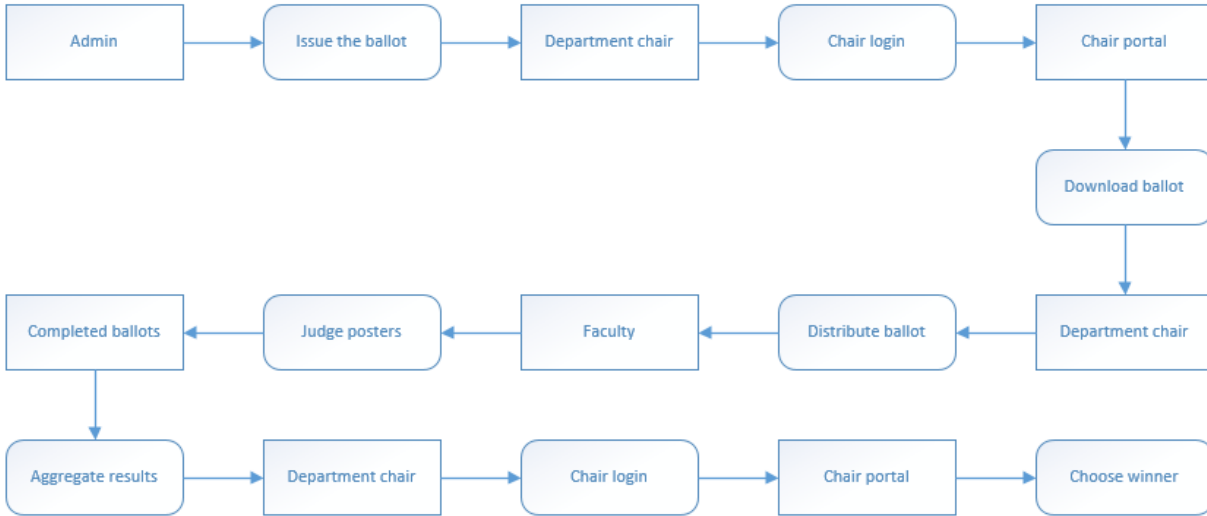
### 5.1.4 Submitter Registration

Submitter registration

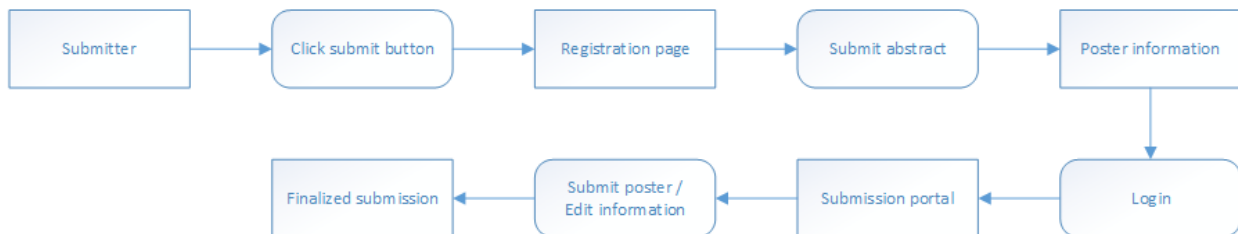


## 5.2 Activity Diagrams

### 5.2.1 Balloting



### 5.2.2 Submitting Poster



# 6. User Interface

## 6.1 Home

The Michael and Sally McCracken Annual  
Student Research Symposium


[Home](#)
[About](#)
[Important Dates](#)
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**Introduction**

The purpose of the Student Research Symposium (SRS) is to showcase both undergraduate and graduate science research in a relaxed, interdisciplinary setting. Any science student involved in research is encouraged to give a poster presentation at this event.



**Keynote Speaker: Dr. Peter Fritsch**
**2017**


Title: A New Age of Species Discovery  
About The Speaker

**Participation**

Participation in the Symposium will offer students practical experience in giving presentations in a professional but relaxed setting. It will also be a fun social event where students can learn about research happening in other departments. There will also be live entertainment, free food, and awards.

[SUBMIT](#)

**Announcements**

Wanted to invite Family & Friends?

Please log in to your account using your primary author credentials or co-author link sent to your email address. From there add family and friends so that we may notify them about your participating in SRS.

Click here to download the scoring sheet for the SciComm Award!

Check out the judging criteria to help you prepare for the SciComm Award!

**Upcoming Dates**

## 6.2 Submission Registration Page

The Michael and Sally McCracken Annual  
Student Research Symposium

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### Submission Registration

Primary Contact Information

	FIRST NAME	LAST NAME	EMAIL	DEPARTMENT
PRIMARY AUTHOR	<input type="text" value="First Name"/>	<input type="text" value="Last Name"/>	<input type="text" value="TCU Email Only"/>	<input style="border: none; background: none; text-decoration: none; color: inherit;" type="text" value="Biology"/>
PRIMARY FACULTY ADVISOR	<input type="text" value="First Name"/>	<input type="text" value="Last Name"/>	<input type="text" value="TCU Email Only"/>	<input style="border: none; background: none; text-decoration: none; color: inherit;" type="text" value="Biology"/>

Poster Information

Poster Title

Type

Judging Department

Poster Abstract

Enter your entire plain text abstract above.

REGISTER



## 6.3 Submission Portal Interface

Submission Portal

### Poster Information

Poster Title

Type

Judging Department

Poster Abstract

TCU's previous Student Research Symposium site provided an outdated submission-review system for the Michael and Sally McCracken Student Research Symposium, an event growing in popularity. The old system was mostly a front-end to a primarily manual collection of procedures to collect, review, and present research projects. There was a growing need to make a more robust system that can provide smart interfaces for various users that allows for secure submitting, balloting, and administration.

The new system provides a host of automated processes that facilitate in the management of the SRS event from year to year, including such things as automatic archiving of previous year's information. This is possible due to a myriad of free technologies such as Django. To complement the many processes we have automated, we have created tools for administrators to change information in the website without entering the codebase. Among the automated processes and features that help with administration, we have embedded advanced algorithms which reduce the need for human

Enter your entire plain text abstract above.

Current Poster PDF

Upload New PDF

Is Poster Public

Co-author

### Advisor Information

	FIRST NAME	LAST NAME	EMAIL	DEPARTMENT	
Primary Faculty Advisor	<input type="text" value="Liran"/>	<input type="text" value="Ma"/>	<input type="text" value="Lma@tcu.edu"/>	<input type="text" value="COSC"/>	<input type="button" value="✎"/>
Faculty Advisor	<input type="text" value="Billy"/>	<input type="text" value="Farmer"/>	<input type="text" value="b.farmer@tcu.edu"/>	<input type="text" value="COSC"/>	<input type="button" value="✎"/> <input type="button" value="✕"/>
Faculty Advisor	<input type="text" value="Donnell"/>	<input type="text" value="Payne"/>	<input type="text" value="d.payne@tcu.edu"/>	<input type="text" value="COSC"/>	<input type="button" value="✎"/> <input type="button" value="✕"/>

## 6.4 Poster Instructions

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### Notice

Please make sure to follow the newly introduced SciCom Logo Requirements!

As part of the College of Science and Engineering's commitment to increase the ability of our students to communicate their research to a more general audience, the SRS Committee is requiring the addition of a short lay-person's description of the research to each poster.

**The required documentation should:**

- Use the SciCom logo and the judging department icon to indicate location of summary statement and the department under which the poster will be judged. Both the logo and the icons can be found on the SRS website in the Poster Instruction area.
- Be no larger than 8 1/2" x 6 1/2" and use no more than 100 words.
- Be prominently displayed in the poster area. It does not have to be part of the printed poster. It can be on a separate sheet that is attached to the poster.

[Click here](#) to download the images for the SciCom Logo Requirements!

### Poster Format

Unless you have produced posters in the past, it is strongly recommended that you attend one of the poster creation workshops before trying to create your SRS poster. Dates, times, and locations of these workshops are provided in the "Poster Support" drop down item off the menu navbar below "Author".

**Plotter Paper Size:** Plotting paper is 42" wide. Thus you will have a maximum of 42" in height for a landscape orientation poster or 42" in width for a portrait orientation poster. You should allow for a 1 to 2 inch border around your poster.

**Poster display area:** Posters will be displayed on two 48" high by 30" wide panels that are joined by a hinge. There is an angle of about 120 degree angle between the panels. Landscape oriented posters (60" wide x 42" high) can be slightly curved in the middle. Portrait oriented posters can be hung on the two sides (2 posters that are each up to 32" wide and 48" high). The display panels for mounting your poster and push pins for mounting it to the panels are provided.

**Layout:** You should either use a single large poster or 2 sheets in portrait orientation. Your poster should not be laminated. Example poster setups are on the SRS website.

**Style:** Use guidelines published by the professional societies in your major, if available. Your faculty advisor can help you with style decisions. Your poster must have a white background. This vastly improves printing speed and reduces ink usage. It is also recommended that you see the poster preparation guide web links on the SRS website.

**Other display elements:** Most of the provided display tables are round and hold three display boards back-to-back so that the area behind the boards cannot be accessed. Only a limited amount of flat table space in front of your poster area is normally available for holding presentation elements (like laptops, handouts, of other presentation aids). If you need to use display elements other than your poster, please have your faculty advisor contact the SRS committee one week prior to the day of the presentations. While we want to meet these special needs and some tables are located in places that allow them, we must ensure easy access past your display area in case of an

### Participation

Participation in the Symposium will offer students practical experience in giving presentations in a professional but relaxed setting. It will also be a fun social event where students can learn about research happening in other departments. There will also be live entertainment, free food, and awards.

[SUBMIT](#)

### Announcements

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### Upcoming Dates

## 6.5 Poster Support

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**POSTER WORKSHOPS**

Poster workshops will be offered before the SRS event in order to assist students in producing a masterful product that would be suitable for presentation at a professional conference within the student's discipline. The first event scheduled is a demonstration of different poster generating software options. The last two are workshops where there is discussion of successful poster designs. Although students may use any format that they wish as long as it meets the basic poster format requirements and can be converted to a PDF file, they are expected to produce a poster that is neat, easily read, and is effective in summarizing the student's research.

By attending one or more of the available workshops, a student can learn about the software and plotters used for making their poster, where to get posters laminated (if you choose to do so, which is recommended for single-sheet posters), and how to generate the final PDF version of their poster.

[Workshop Dates, Times and Locations](#)

**OTHER SOURCES OF HELP**

A good way to learn about poster format/content that is appropriate for your discipline is to check web sites of professional societies.

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**Announcements**

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**Upcoming Dates**

**Macintosh OS X (Powerpoint, Illustrator, Photoshop, Pages, etc.)**

## 6.6 Viewer Interface

The screenshot displays the 'The Michael and Sally McCracken Annual Student Research Symposium' website. The header includes navigation links: Home, About, Important Dates, Author, Viewer, Contact Us, and Sign Out. The main content area features a search bar and a filter/sort sidebar on the left. The search results show a list of abstracts, with the first one selected. The selected abstract is titled 'Analyzing Spatial Patterns of Texas Horned Lizards (Phrynosoma cornutum) and Harvester Ants (Pogonomyrmex spp.) in Small Texas Towns Using GIS'. The abstract details the author (Rachel Alenius), advisor (Dean Williams and Tamie Morgan), location (Session: 1, 1st Floor, Table Number: 4), and a brief description of the research. The interface also shows a 'Filter and Sort' sidebar with options for departments, years, degrees, and sorting criteria. A 'FILTER' button is located at the bottom of the sidebar.

The Michael and Sally McCracken Annual  
Student Research Symposium

Home About Important Dates Author Viewer Contact Us Sign Out

Search abstracts...

1 2 3 4 5 6 7

Biology (21) Chemistry & Biochemistry (15) Computer Science (6) Engineering (6) Environmental Science (14) Geology (14) Interdisciplinary (4)

Mathematics (5) Nutritional Sciences (8) Physics & Astronomy (21) Psychology (29) Current Total (158)

BIOL2017ALENIUS1393 BIOL

**Analyzing Spatial Patterns of Texas Horned Lizards (*Phrynosoma cornutum*) and Harvester Ants (*Pogonomyrmex* spp.) in Small Texas Towns Using GIS**

Type: Graduate  
 Author(s): Rachel Alenius [Biology](#)  
 Advisor(s): Dean Williams [Biology](#) Tamie Morgan [Environmental Science](#)  
 Location: Session: 1, 1st Floor, Table Number: 4

For several years, Texas horned lizards (*Phrynosoma cornutum*) in Kenedy and Karnes City (TX) have been the subject of ongoing studies at TCU. In the past decade lizards have disappeared from multiple locations in these towns, suggesting these populations are declining. To determine whether these populations have been stable or are declining in recent years, I used ArcGIS software to map GPS coordinates and calculate spatial statistics of horned lizards, their fecal pellets, and harvester ant mounds from 2013-2016. Stable spatial statistics across this time period should correlate with population stability at these sites.

(Poster is private)

BIOL2017ALENIUS60432 BIOL

Filter and Sort

All Departments ▾

All Years ▾

All Degrees ▾

Order by (default) ▾

Results per page (default) ▾

Abstract has Poster:

FILTER

## 6.7 FAQ

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### Frequently Asked Questions

**Who may participate in the annual Student Research Symposium?**

Any undergraduate or graduate student who has been engaged in some form of research within the College of Science & Engineering is strongly encouraged to participate.

---

**What are the top 5 reasons for participating?**

1. Great "practice" for any future presentations you might give at professional scientific conferences in your own discipline. You could even use this event as a "dry run" for a poster intended for a professional conference.
2. Free workshops will be made available to you, to show you how to use cutting-edge technology to produce a very professional-looking poster.
3. It provides another item to put on your resume to help "set you apart" from the rest of the crowd.
4. Best poster awards
5. It will be a great social event, with tasty food and live entertainment ... a great opportunity to meet students involved in research from other departments.

### Participation

Participation in the Symposium will offer students practical experience in giving presentations in a professional but relaxed setting. It will also be a fun social event where students can learn about research happening in other departments. There will also be live entertainment, free food, and awards.

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### Announcements

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## 6.8 Previous Speakers

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**Dr. Connie Guttersen** 2016



**Title:** The Promise of a Visionary Scientific Approach

Today there is an unprecedented opportunity for our scientists to aspire to something magnificent. Transforming the study of science to captivate the interest of our modern day population. It is cutting edge research that pushes the field in an entirely new direction, one full of novel insight and valuable applications. From searching for the cure for cancer and understanding how genes and nutrients interact on the molecular level to the latest advances for a more sustainable environment. Strategic leadership with this valuable knowledge creates a brighter future for visionary students.

**About The Speaker**


Dr. Connie Guttersen, R.D., Ph.D. is a nationally and internationally renowned registered dietitian and culinary professional, New York Times bestselling author of The Sonoma Diet and a sought-after instructor. She is a registered dietitian and nutrition instructor at the world famous Culinary Institute of America.

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SUBMIT

**3MT Competition Finalists** 2015



**Title:** Three Minute Thesis Competition

3MT: The College of Science & Engineering (CSE) will initiate a "Three Minute Thesis" competition modeled after the competition developed at the University of Queensland (<http://threeminutethesis.org/>). Three Minute Thesis (3MT) is a research communication competition developed by which challenges research higher degree students to present a compelling oration on their thesis and its significance in just three minutes in language appropriate to a non-specialist audience. This competition format is spreading across the world – see <http://threeminutethesis.org/international>.

**About The Speaker**

The finalists are undergraduate and graduate students from College of Science & Engineering.

**Announcements**

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[Check out the judging criteria to help you prepare for the SciComm Award!](#)

**Astronaut: Anousheh Ansari** 2014

## 6.9 Important Dates

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### Schedule

Event Name	Date	Time	Location
Poster Software Demo	Feb. 10, 2017	3 p.m. - 4 p.m.	SWR 237
Poster Workshop I	Feb. 17, 2017	3 p.m. - 4 p.m.	SWR 237
Poster Workshop II	Feb. 24, 2017	3 p.m. - 4 p.m.	SWR 237
Abstract Submission Open	March 2, 2017	midnight	Online
Abstract Deadline	March 23, 2017	midnight	Online
Poster Deadline	April 6, 2017	midnight	Online
Department Nominations for SciCom Awards	April 18, 2017	noon	Online
Registration for both Sessions and Poster Setup	April 20, 2017	1 p.m. - 6 p.m.	Tucker Technology Center
The Day of SRS	April 21, 2017	10:30 a.m. - 7:30 p.m.	Tucker Technology Center

*Note: PDF Poster Conversion (If you have no way of generating PDF files of your poster make an appointment with Dr. Busbey during the week before SRS and he will help - a.busbey@tcu.edu)*

### SRS Exhibit Schedule

Time	Description
10:30 a.m. - 2:15 p.m.	Registration for both Sessions
noon - 2 p.m.	Poster Session 1
2 p.m. - 2:30 p.m.	Take-down of Session 1 posters and set-up of Session 2 posters
2:30 p.m. - 4:30 p.m.	Poster Session 2
3:30 p.m. - 4:30 p.m.	Dean's Reception in the John V. Roach Professional Development Center (TUC 139)

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SUBMIT

### Announcements

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[Check out the judging criteria to help you prepare for the SciComm Award!](#)

### Upcoming Dates

## 6.10 ReSEaRCh



The screenshot shows the homepage of the reSEaRCh website. At the top, there is a navigation menu with links: SERC Home, Grant Programs, Grant Recipients, CSE Home Page, TCU Home page, Contact, and SRS. Below the navigation is a welcome message: "Welcome to the TCU College of Science and Engineering Research Center (SERC)" followed by a link to "DOWNLOAD THE APPLICATION FORM FOR FALL 2016 HERE!". The main content area features a large heading: "Are you an undergraduate student with a great idea for a *research* project?" and a sub-heading: "Check out the possibility of receiving up to \$1,500 to fund your project!". Below this is the reSEaRCh logo and the text "Science and Engineering Research Center". At the bottom of the main content area, it says "For information and application forms contact a".

TCU COLLEGE OF SCIENCE & ENGINEERING

# reSEaRCh

Science and Engineering Research Center

---

[SERC Home](#) ... [Grant Programs](#) ... [Grant Recipients](#) ... [CSE Home Page](#) ... [TCU Home page](#) ... [Contact](#) ... [SRS](#)

Welcome to the TCU College of Science and Engineering Research Center (SERC)  
DOWNLOAD THE APPLICATION FORM FOR FALL 2016 [HERE!](#)

Are you an undergraduate student with a great idea for a *research* project?  
Check out the possibility of receiving up to \$1,500 to fund your project!

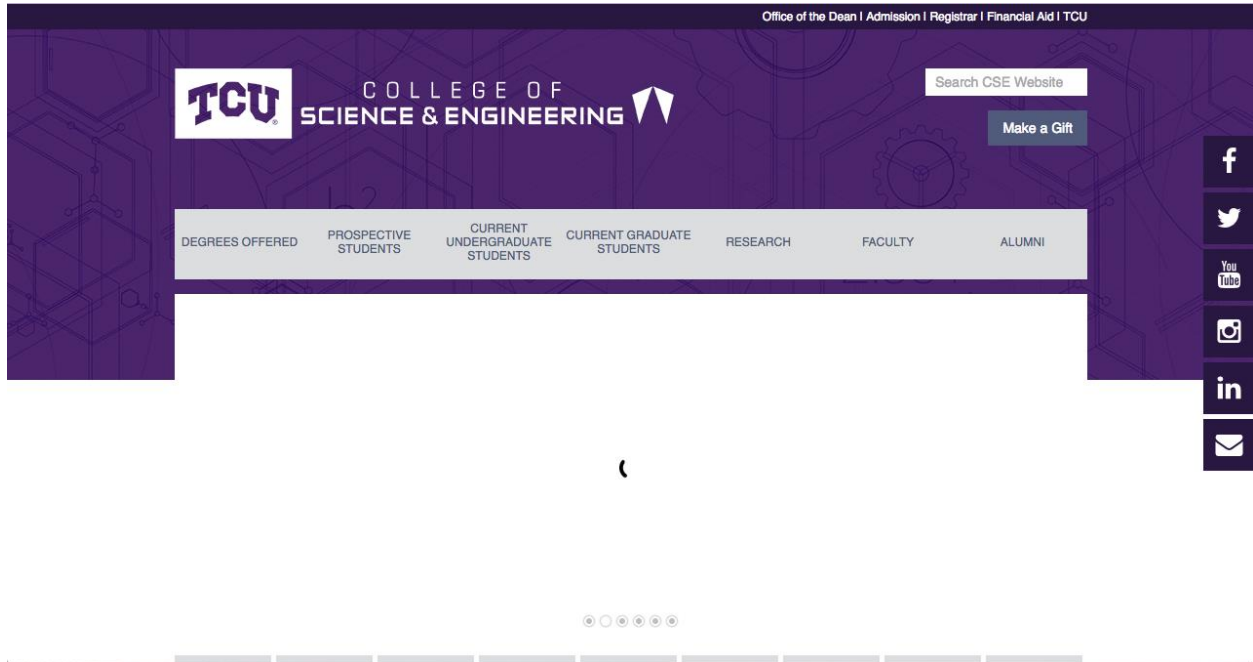
## reSEaRCh

Science and Engineering Research Center

For information and application forms contact a



## 6.11 CSE



## 6.12 Contact Us

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**Co-Chairs of the SRS Committee**

Name	Email	Department
Kristi Argenbright	k.a.argenbright2@tcu.edu	Environmental Science
Kayla Green	kayla.green@tcu.edu	Chemistry & Biochemistry

**SRS Committee**

Name	Email	Department
Becky Bittle	b.bittle@tcu.edu	Engineering
Gary Boehm	g.boehm@tcu.edu	Psychology
Art Busbey	a.busbey@tcu.edu	Geology
Lyn Dart	ldart@tcu.edu	Nutritional Sciences
Ze-Li Dou	z.dou@tcu.edu	Mathematics
Billy Farmer	b.farmer@tcu.edu	Computer Science
Morgan Kiani	m.kiani@tcu.edu	Engineering
Liran Ma	Lma@tcu.edu	Computer Science
Tamie Morgan	tamie.morgan@tcu.edu	Environmental Science
Ken Richardson	k.richardson@tcu.edu	Mathematics
Dick Rinewalt	d.rinewalt@tcu.edu	Computer Science
Magnus Rittby	m.rittby@tcu.edu	Physics & Astronomy
Andrea Stafford	andrea.stafford@tcu.edu	Interdisciplinary

**Participation**

Participation in the Symposium will offer students practical experience in giving presentations in a professional but relaxed setting. It will also be a fun social event where students can learn about research happening in other departments. There will also be live entertainment, free food, and awards.

SUBMIT

**Announcements**

**Wanted to invite Family & Friends?**

Please log in to your account using your primary author credentials or co-author link sent to your email address. From there add family and friends so that we may notify them about your participating in SRS.

[Click here to download the scoring sheet for the SciComm Award!](#)

[Check out the judging criteria to help you prepare for the SciComm Award!](#)

**Upcoming Dates**

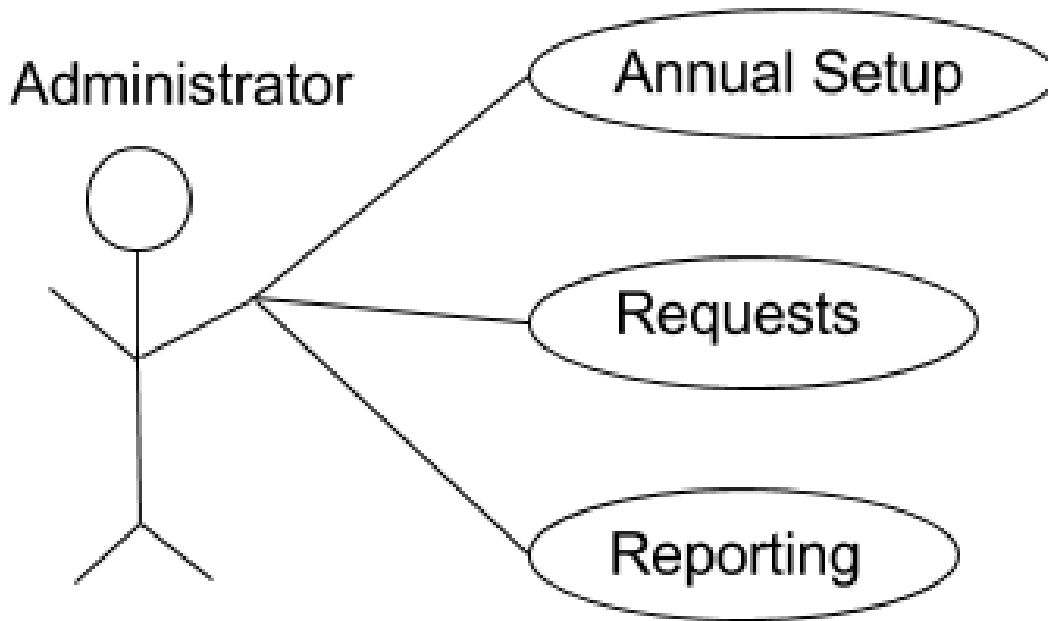
## 7. Glossary of Terms

**SRS** - Student Research Symposium

**Django** - A complete high-level web framework that encourages rapid development and clean, pragmatic design.

## Appendix A. Use Cases

### Admin



## Annual Setup

<b>Use Case Name:</b>	<b>Annual Setup</b>
Description	Administrator setup of site data which occurs annually
Actor	Administrator
Data	Up-to-date list of Departments, up-to-date list of Department/Committee Chairs, site text, Table Layout photographs, Table Layout numbering schema, student account data (in database tables)
Preconditions	Must have Administrator login information and access to the Django admin panel
Triggers	Select the Annual Management tab on the Django admin panel
Course of Events	<p>Login with Administrator information</p> <p>If Department tool is selected</p> <p>Modify departments as needed</p> <p>Else if the Department or Committee Chair Member tool is selected</p> <p>Create, Update, or Delete Department/Committee Chair members as needed</p> <p>Else if a site text field is selected</p> <p>Select the appropriate field to modify (Speaker, Important Dates, Contacts, etc...)</p> <p>Modify the fields as needed to reflect current data</p> <p>Else if Update Table Schema is selected</p> <p>If updating the Table Layout photographs</p> <p>Select the submit new layout option</p> <p>If updating the Table Layout numbering schema</p> <p>Input the most recent numbering schema that is reflected by the Table Layout Photographs</p>
Exceptions	If server is down the site cannot be accessed
Post Conditions	The site shall reflect the changes made by the Administrator during the management session

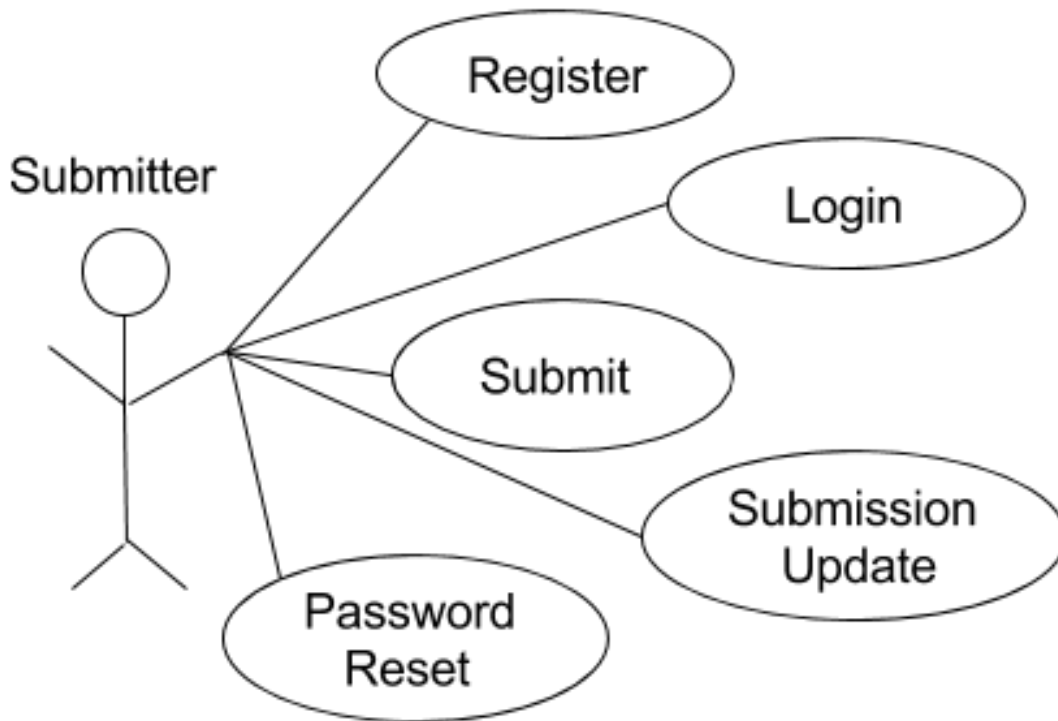
## Request

<b>Use Case Name:</b>	<b>Requests</b>
Description	Administrator management of requests
Actor	Administrator
Data	User account information, abstracts, posters, table assignments, ballot issuance
Preconditions	Must have Administrator login information and access to the Django admin panel If issuing ballots, the hard poster submission deadline must have passed
Triggers	Select the Requests tab on the Django admin panel
Course of Events	Log in with Administrator information If Account Management is selected Select between account creation, updates, or deletion Else if Submission Management is selected Select between Abstracts or Posters Choose whether to Create, Update, or Delete the previously selected submission type Modify submission data as needed Else if Manage Table Assignments is selected Select the appropriate table to modify Add or remove table assignments as needed Else if Issue Ballots is selected Choose among the departments to send ballots to Use the tool to modify that department's ballot if needed Select 'Issue Ballots'
Exceptions	If server is down the site cannot be accessed
Post Conditions	If change table assignments, the site shall reflect the changes made by the Administrator during the management session If change an account information (password, abstract, poster, ...), change should be save into database If issue ballots, create a PDF file that have all posters of the department

## Reporting

<b>Use Case Name:</b>	<b>Reporting</b>
Description	Administrator management of data reporting through the System
Actor	Administrator
Data	Booklet information, Author, Chair, and Adviser name badge information, SRS Winner data
Preconditions	Must have Administrator login information and access to the Django admin panel
Triggers	Select the Reporting tab on the Django admin panel
Course of Events	<p>Login with Administrator information</p> <p>If Generate Booklet is selected,</p> <p>Gather information from database and generate the SRS booklet</p> <p>Open the booklet as .pdf in separate window</p> <p>Else if Name Badge Creation is selected</p> <p>Gather information from database and generate name badges</p> <p>Open the name badges as a downloadable CSV file in separate window</p> <p>Else if View Winners is selected</p> <p>Display the winner results from the current year in printable format</p>
Exceptions	<p>If server is down the site cannot be accessed</p> <p>If the Chairs have not determined their winners, the View Winners option will yeild no results</p>
Post Conditions	

## Submitter





## Register

<b>Use Case Name:</b>	<b>Register</b>
Description	Registration interface for first-time submitters in the current SRS event
Actor	Submitter
Data	Author, Co-Author, and Faculty Adviser names and emails, Abstract information
Preconditions	Must have a ...@tcu.edu email address
Triggers	Select the Login/Register button from the Author tab on the home page
Course of Events	Select "Register a new account" Fill out the form which requires a primary author with a @tcu.edu email, co-authors' names and emails, faculty advisors names and emails, Poster title, classification (undergraduate or graduate), department, and abstract Select "Submit"
Exceptions	If the Primary Author's and Primary Author email address are not a ...@tcu.edu email, the window will prompt an error message If any of the Abstract, Faculty Advisor, Poster title, Classification, or Department fields are left empty, the window will prompt an error message
Post Conditions	An email is sent to the Primary Author and all Faculty Advisers containing a generated Poster ID and password. Another group of emails is sent to all authors requesting family information

## Login

<b>Use Case Name:</b>	<b>Login</b>
Description	Primary login method for the Submitter and Chairs
Actor	Submitter, Chair
Data	Login credentials
Preconditions	Must have Submitter or Chair login information and access to the System
Triggers	If Logging in as a Submitter Select the Register/Login button from the Author tab on the homepage Else If Logging in as a Chair Select the Chair Login button from the Viewer tab on the homepage
Course of Events	If a valid set of credentials is input, access is granted
Exceptions	If the password is forgotten, a reset password option is available
Post Conditions	The Submitter or Chair Portal is displayed and populated with current data (if exists)

## Submit

<b>Use Case Name:</b>	<b>Submit</b>
Description	Method for Submission of Poster
Actor	Submitter
Data	Poster file, Family Information
Preconditions	Logged in as Submitter - within submitter portal
Triggers	Select "Choose File" for the Poster
Course of Events	Navigate to the file location Select "Submit"
Exceptions	If file is an unacceptable type, return an error message If file was turned in after the poster submissions deadline, set the 'unreviewable' flag
Post Conditions	Poster is added to the database

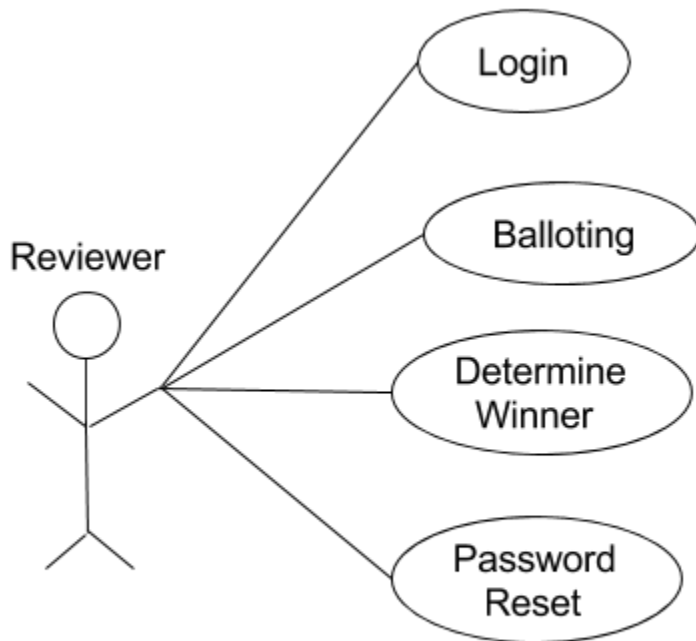
## Submission Update

<b>Use Case Name:</b>	<b>Submission Update</b>
Description	Method for Updating of Abstract, Poster, Author, Advisers, and Family Information
Actor	Submitter
Data	Abstract, Poster file, Authors, Advisers, and Family Information
Preconditions	Logged in as Submitter - within submitter portal
Triggers	Once in the portal, select any text field
Course of Events	<p>If updating Author information            Select the associated field and modify as needed            Else if removing an author            Select the "remove" option to the right of the Author to be removed (not present for primary author)            Else if updating Adviser information            Select the associated field and modify as needed            Else if removing an Adviser            Select the "remove" option to the right of the Adviser to be removed (only works as long as one Adviser remains)            Else if updating Family Information            Select the associated field and modify as needed            Else if removing Family Information            Select the "remove" option to the right of the Family Member to be removed            Else if updating Abstract            Select within the Abstract field and modify as needed            Else if updating poster            Select "Choose File" for the poster            Navigate to the new file location            Select "Submit"            Select "Save" when finished with all updates</p>
Exceptions	
Post Conditions	Updates made are reflected in the database

## Password Reset

<b>Use Case Name:</b>	<b>Password Reset</b>
Description	Password Reset function executable by user
Actor	Submitter, Chair
Data	User Account Information
Preconditions	Must be a Submitter or Chair with an active account and have access to the email on the account
Triggers	Select the "Forgot Password?" link on login frame
Course of Events	Enter account email address Select "Send Password Reset" If an active account exists with the supplied email address Password reset link is sent to the supplied email address Else Prompt the user that there is no account associated with the supplied email address
Exceptions	If user has forgotten or lost access to the account email, a request can be sent to the Administrator the resolve the issue
Post Conditions	Password must be reset within 24 hours of sending the password reset link

## Reviewer



## Login

(As described in Submitter Login Section)

## Balloting

<b>Use Case Name:</b>	<b>Balloting</b>
Description	Method for the Reviewer to issue ballots to faculty
Actor	Reviewer
Data	List of Poster IDs eligible for judging
Preconditions	Logged in as a Reviewer - within Reviewer portal and Admin has issued ballots to Reviewers
Triggers	Select "Download Ballots"
Course of Events	Send ballots to faculty members
Exceptions	If the Poster ID is flagged as non-competitive due to a late submission, it will not be available to be selected as a winner
Post Conditions	Ballots are collected physically by the Reviewer and then the Reviewer will move on to the 'Determine Winner' use case.



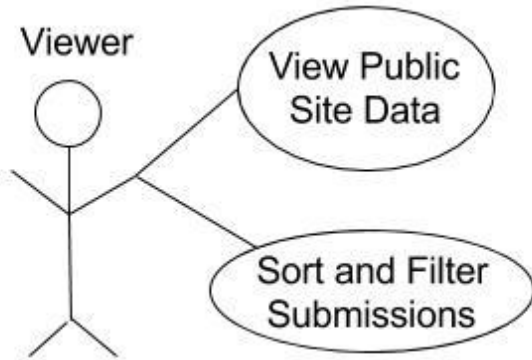
## Determine Winner

<b>Use Case Name:</b>	<b>Determine Winner</b>
Description	Method for the Reviewer to input the decided winner into the System
Actor	Reviewer
Data	Poster ID for the winning poster
Preconditions	Logged in as a Reviewer - within Reviewer portal
Triggers	Select "Choose Winner"
Course of Events	<p>Input the Poster ID of the winner</p> <p>Select "Submit"</p> <p>Prompt with the relevant poster information and ask if user is sure</p> <p>If "Yes" is selected</p> <p>Set winner flag on the submitted Poster ID</p> <p>Else</p> <p>Return to the initial "Choose Winner" page; store nothing</p>
Exceptions	If the poster ID is flagged as non-competitive due to a late submission, it will not be available to be selected as a winner
Post Conditions	The submitted Poster ID is flagged as a winner and can then be displayed by the Administrator under "View Winners"

## Password Reset

(As described in Submitter Password Reset Section)

## Viewer



## View Posters on SRS Site

<b>Use Case Name:</b>	<b>View Public Site Data</b>
Description	The site data is visible to all visitors
Actor	Viewer
Data	All public site data
Preconditions	Must have access to SRS website
Triggers	Navigate to the SRS URL
Course of Events	Navigate through any menu publicly available as desired
Exceptions	
Post Conditions	

## Sort and Filter Submissions

<b>Use Case Name:</b>	<b>Sort and Filter Submissions</b>
Description	A method for the Viewer to display specific subsets of submissions within the System
Actor	Viewer
Data	All submissions
Preconditions	Must have access to SRS website
Triggers	Select the "Viewer/All Submissions" tab from the top panel
Course of Events	Achieve any permutation of submission information by manipulating the sort and filter parameters
Exceptions	Winners will not be available for the current year until the SRS event and winner presentation ceremony have passed
Post Conditions	