
e-Valuate

Vision

Version 1.0.0

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Revision History

Date	Version	Description	Author
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07/Oct/19	0.1.2	Initial Positioning	Action Ghimire
07/Oct/19	0.1.3	Initial Stakeholder Profiles	Megan Phan
07/Oct/19	0.1.4	Initial Product Features/Scope	Jackie Ye
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16/Oct/19	0.2.2	Product Overview Revision	Hau Ha
16/Oct/19	0.2.3	Stakeholder Profiles Revision	Megan Phan
18/Oct/19	0.2.4	Edit wording to fit with glossary. Add more requirements.	Kenny Houston
20/Oct/19	0.2.5	Introduction revisions	Jordyn Dent
04/May/20	0.2.5	fixed spelling and other errors. removed instruction. Completed missing sections.	Action Ghimire
06/May/20	1.0.0	Final touch ups and corrections	Kenny Houston

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1. Introduction

The purpose of this document is to define the requirements, features, and outcomes of the e-Valuate application. Business opportunities and problem statements can be found in section 2, stakeholder/user profiles in section 3, product overview in section 4, product features in section 5, and other product requirements in section 6.

1.1 Background

Every year, the Consortium for Computing Sciences in Colleges (CCSC) hosts a conference in which contestants can submit research posters to be judged. Any given year can have dozens of posters, but since the adoption of this conference, organization and judging efforts have been completed by hand by the chair and his colleagues. Judges must first attempt to locate the posters they are to judge, then take five to ten minutes to judge each poster using pen and paper, then finally compile all of their score sheets together into an excel sheet. This is a very time-consuming process that needs a lot of working pieces to be successful. To streamline this process, improve ease of use, and allow for scaling, the e-Valuate team is building an application that can be utilized by everyone involved with the conference. Our solution will remove the headache of doing everything by hand with pen and paper and allow for similar contests to reap the benefits of our digital service.

1.2 References

CCSC: South Central Region homepage: <http://www.ccsc.org/southcentral/>

2. Positioning

2.1 Problem Statement

The problem of	the chair has to take care of tedious paperwork like keeping track of all the papers that the judges scored their posters in and manually uploading the scores to excel, manually calculating the results, and deciding the winner based on the result. judges have to carry a bunch of papers with them to score each poster they are assigned to, and figure out where their assigned poster is located. Scheduling the judging process is not easy and sometimes there will be more than 2 judges on a poster at the same time overcrowding the poster. Judges will not get the same amount of time and exposure to the poster. This could impact the judges score.
Affects	Judges, admin, contestants
The impact of which is	delay in the result. unorganized judging process which could lead to some disadvantages to both the judges and participating contestants.
A successful solution would be	Easier and faster results (average score of the contestants) with an automated system. Automated Excel sheets can give the judges ability to see the scores and also change their scores after seeing other judges' scores, if they change their mind or because of errors. System will take the changes in score and use the assigned formula to change the result within excel. Scheduling the judging process will avoid overlap and all the judges will get equal time to each poster.

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2.2 Product Vision/Position Statement

For	First it will only be used for CCSC, but later anyone wanting to host an event to judge any type of contest.
Who	Anyone looking for an easier and hassle-free automated system to manage an event that requires some form of judging/grading someone's work/entries.
The (product name)	e-Valuate
That	Can automate and organize all the scores and their average. Provide scheduling so the judges can know and prepare for that particular item. Has limitless possibility with an open pamphlet that can be modified to fit any need.
Unlike	Crunching numbers tediously into excel. Unorganized and chaotic judging process.
Our product	pamphlet that can fit anywhere in any condition.

3. Stakeholder Profiles and User Descriptions

3.1 Stakeholder Summary

As of now, our main client is Dr. Scherger, the chair of the poster presentation session of the CCSC - South Central conference. The project, later on, will include all the judges as they will use this product for the conference.

Name	Description	Benefit from product	Features of interest	Constraints to be accommodated	User or not?
Michael Scherger	Chair of the CCSC	Conveniently create events to manage judges and entries.	Entry registration, Grading of entries, Generation of score report	Mobile-friendly	Yes
Judges		Easy to grade entries	Grading of entries	Mobile-friendly	Yes

3.2 User Environment

The app will be used mostly at the CCSC - South Central conference on April 3, 2020 at The University of Texas at Dallas. The users will include the conference board, judges, or anyone that is involved in the judging system. Before the conference, the chair will use the app to post posters and their information into the app. They will also assign which judge will grade which poster. The process takes an unknown amount of time because the posters can be submitted up until the day before the conference. During the conference, the judges take about 5 to 10 minutes to stop by each poster and score them. This depends on the number of posters submitted as well as the number of judges.

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3.3 Summary of Key Stakeholder or User Needs

The grading system has always been done manually and takes a lot of time and effort. The stakeholder wants to have an app that can help assign the judges, generate templates to score and rank the posters, and export them to an Excel file.

Need	Priority	Concerns	Current Solution	Proposed Solutions
Have contestants register	High	Time consuming	Registration by email	Registration page available to contestants at any time
Grade entries	High		Grade on paper rubric	Interactive rubric on mobile device
Create score report	High	Time consuming & error prone	Transfer from paper to excel manually	System generates report automatically from saved data

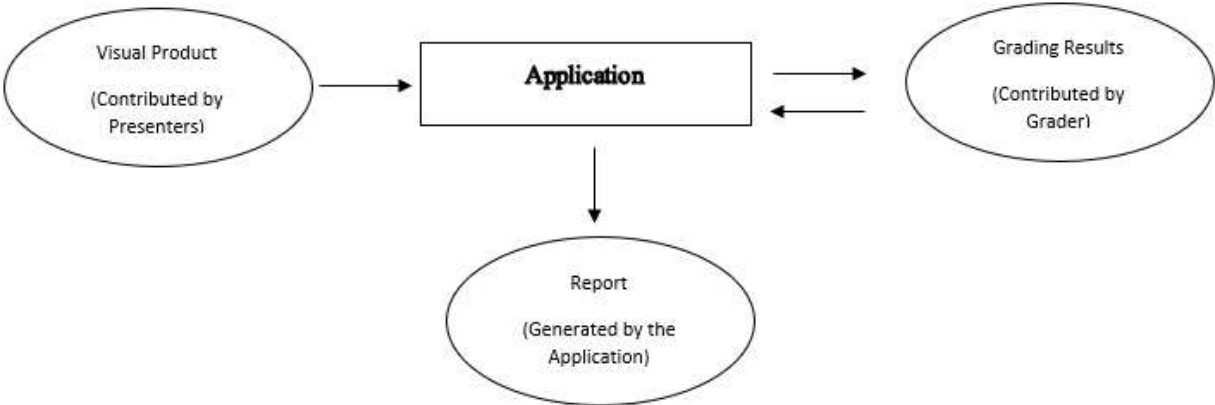
3.4 Alternatives and Competition

Our product does have some alternatives but they are usually costly to operate and might not fit everyone's needs. our product offers something so unique and packed with features we will fulfill the needs of most of the contests like events.

4. Product Overview

This section provides a high-level view of the e-Valuate grading process and other functionality.

4.1 Product Perspective



The product is a web-application that helps users to ease the process of any scoring system. There are two types of users that are supported by the application: the judge and the contestant. The product shall enable the contestant to upload their entry and other information of each entry. With the judge, the application will show the user the entries which are uploaded by the presenter and guide the judge through the scoring process. After the grading process, the product gathers data given by the judge and generates a special report as a result of the scoring system.

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4.2 Deployment Considerations

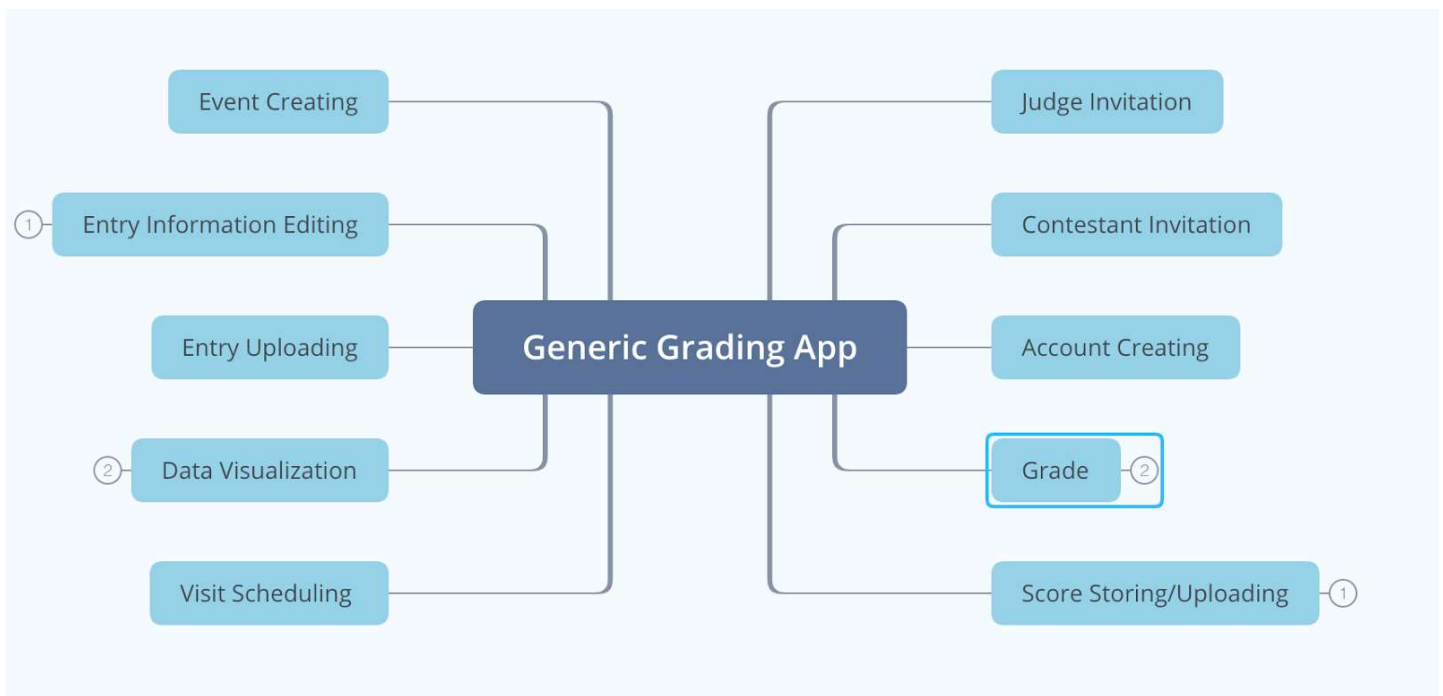
The application requires network access to deploy. Some specifications to consider are storage, domain name, SSL certificate, and web hosting server space.

4.3 Assumptions and Dependencies

(With the assumption of a web application)

The application requires users to have Internet access to upload or retrieve information. The application also requires a mobile device from each grader user to store the database. The only minimum hardware specification is that the device is capable of running a web browser.

5. Product Features / Scope



5.1 Account Creation

If the user wishes to be a chair or judge, they may create an account.

5.2 Event Creation

The event chair creates an event by inserting event name, date, type and other information.

5.3 Contestant Invitation

The event chair invites contestant teams to join the event by creating contestant accounts.

5.4 Entry Uploading

The contestant team uploads their entries to the database (name, author, date).

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5.5 Entry Information Editing

If the contestant team wants to edit their entry information after uploading, this function would be required.

5.6 Judge Invitation

The event chair invites judges to join the event by creating judge accounts.

5.7 Visit Scheduling

The system generates the visiting sequences for every judge automatically in order to avoid too many visits for one entry at the same time.

5.8 Grade

Judges start visiting entries by a specific sequence provided by the system. And grade every entry by following the rubric.

5.9 Score Storing/Uploading

The system uploads all scores to the database. If there is no Internet connection, the system will store scores locally and try to upload them after the Internet connection.

5.10 Data Visualization

The system generates math models after scores uploaded to the database.

6. Other Product Requirements

6.1 User Requirements

6.1.1 Chair Requirements

The ability to create an event with associated rubric.

6.1.2 Judge Requirements

The ability to score assigned entries.

6.1.3 Contestant Requirements

The ability to register their entries for judges to score at the event.

6.2 Performance Requirements

6.2.1 Online & Offline Grading

During the grading process, if a judge's device loses connection to the system temporarily, the device should hold onto scores to be resynced with the system once a connection is reestablished.

6.2.2 Low Latency

The system should respond quickly to user interactions, ensuring an enjoyable experience.

6.3 Functional Requirements

6.4 Entry Registration

Contestants need to have a way of applying to events so their entries can be graded through our system by judges.

6.5 Grading System

Judges need an interactable rubric which is easy to navigate and understand.

6.6 Reliable Database

Having a dependable system is important for providing a solution which users are not worried about using. Data loss

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makes everything more difficult.

6.7 *Rubric Creation*

Chairs need a simple system for creating rubrics to be used by judges at the actual event.

6.8 **Quality-of-Service Requirements**

6.9 *Simple GUI*

A simple design is essential to having a shallow learning curve to the system. For more complex parts of the system, a tutorial should be provided to bridge the gap.