

Mercy Clinic Volunteer System

Computer Science Senior Design Project 2019-2020

Kenzie Clarke, Warren Riley, Minh Nguyen, Cole Weber, Nestor Guerrero, Wynn Pho

Texas Christian University



Meet the Team





Kenzie Clarke - Team Lead

Nestor Guerrero - Full Stack Developer



Minh Nguyen - Full Stack Developer



Warren Riley - Developer



Cole Weber

- Website Manager/Developer



Wynn Pho - Full Stack Developer



Wellness checkups Sick visits

Mercy Clinic of Fort Worth mercy-clinic.org/care

Non Profit Medical Clinic



- •
- Dental checkups
 - Extractions
 - Limited pharmacy services





Current Workflow at Mercy

Manual Scheduling via In-house Whiteboard Calendar



Paper Check in and Check out





Treasure hunt for Volunteer Hour Requests





Systems and Technologies

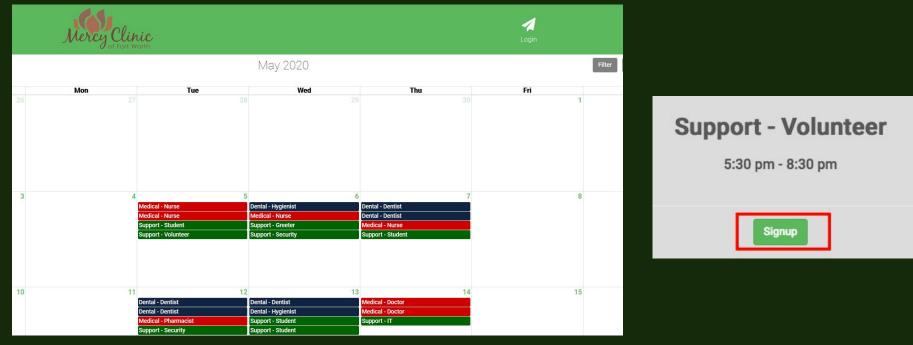


Higheroku Express

Calendar & Scheduling



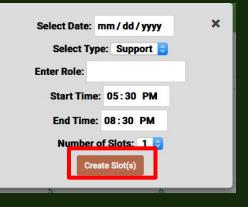
Volunteer View





Administrator View

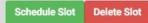
Mercy Clip	vic	Home Calence	j 🔮 🚺 dar Volunteers Check i		Z Logout	
	Ma	y 2020			Create Slot(s)	
Mon	Tue	Wed	Th	u	Fri	
					1	
4	5 Medical - Nurse Medical - Nurse Support - Student Support - Volunteer	Dental - Hygienist Medical - Nurse Support - Greeter Support - Security	6 Dental - Dentist Dental - Dentist Medical - Nurse Support - Student Support: Cole Weber	7	8	
11	12 Dental - Dentist Dental - Dentist Medical - Pharmacist Support - Security	Dental - Dentist Dental - Hyglenist Support - Student Support - Student	13 Medical - Doctor Medical - Doctor Support - IT	14	15	



Support - Volunteer

5:30 pm - 8:30 pm

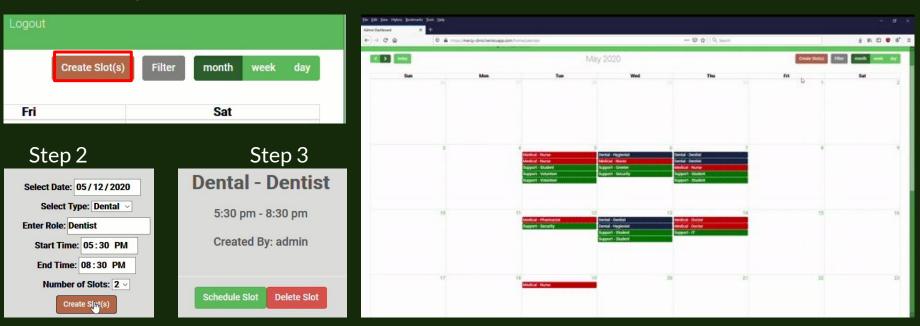
Created By: admin





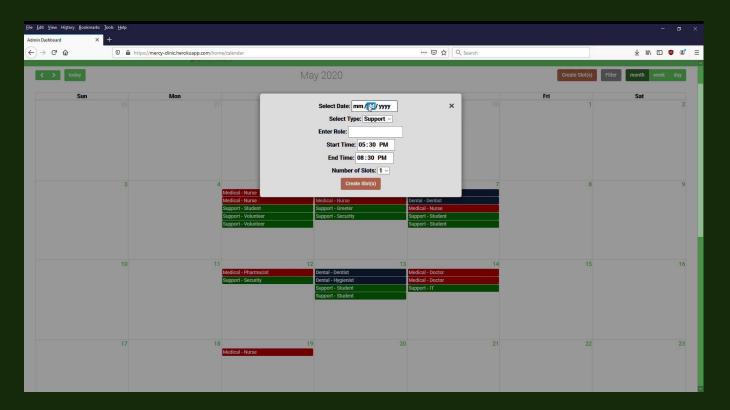
Admin Slot Creation

Step 1





Admin Slot Creation Demo





Volunteer Sign Up

Step 2





Volunteer Sign Up Demo

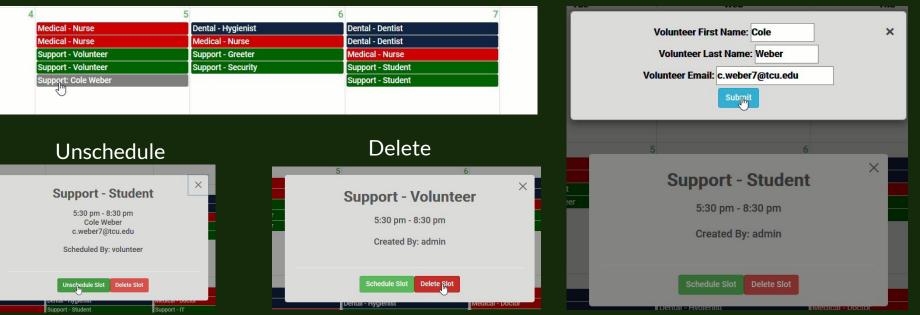
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	Mercy Cli	vic				
Coday Sun	Mon 26		First Name: Cole Last Name: Weber Email: c.weber7 Submit	30	Fri	Filter month week day Sat
			Support - Student	t ×		
		Medical - Nurse Medical - Nurse Support - Student Support - Volunteer	5:30 pm - 8:30 pm			
		Dential - Dentiat Dential - Dentiat Medical - Pharmaciat Support - Security	Dental - Dentiet Dental - Hyglenist Support - Student Support - Student	Medical - Doctor Medical - Doctor Support - IT		
	17 1	Medical - Nurse	20	21	2:	2 23



Admin Slot Management

View Scheduled Slots

Manually Schedule





Admin Slot Management Demo

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(←) → C' ŵ	https://mercy-clinic.herokuapp	.com/scheduleslot			III\ 🖸 혛 📽 😑		
	Mercy	Clinic of Fort Worth	Home Calendar	Volunteers Check in/out	A ogout		
			Succesfully scheduled s	lot!			
K > today			May 2020			Create Slot(s) Filter	r month week day
Sun	Mon	Tue	Wed	Thu		Fri	Sat
	26 Dr					1	2
	3	4 Medical - Nurse Medical - Nurse Support - Student Support - Volunteer	5 Dental - Hygienist Medical - Nurse Support - Greeter Support - Security	G Dental - Dentist Dental - Dentist Medical - Nurse Support - Student Support: Cole Weber	7	8	9
	10	11 Dental - Dentist Dental - Dentist Medicia - Pharmacist Support - Security	12 Dental - Dentist Dental - Hygienist Support - Student Support - Student	13 Medical - Doctor Medical - Doctor Support - IT	14	15	16

Administrator Features



Administrator Features







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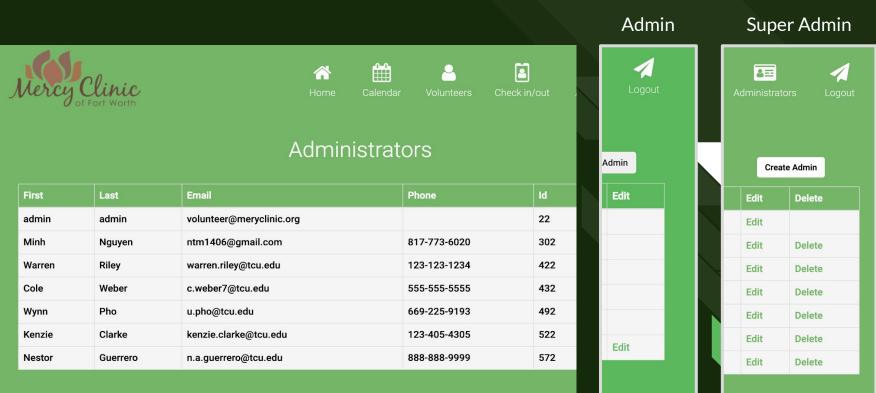
Create Admin

Administrators

First	Last	Email	Phone	Id	Edit	Delete
admin	admin	volunteer@meryclinic.org		22	Edit	
Minh	Nguyen	ntm1406@gmail.com	817-773-6020	302	Edit	Delete
Warren	Riley	warren.riley@tcu.edu	123-123-1234	422	Edit	Delete
Cole	Weber	c.weber7@tcu.edu	555-555-5555	432	Edit	Delete
Wynn	Pho	u.pho@tcu.edu	669-225-9193	492	Edit	Delete
Kenzie	Clarke	kenzie.clarke@tcu.edu	123-405-4305	522	Edit	Delete
Nestor	Guerrero	n.a.guerrero@tcu.edu	888-888-9999	572	Edit	Delete



Admin vs Super Admin Privileges



« 0 »



Create Admin

rcy Clinic			Aome	Calendar	Volunteers	Check in/out	Administrators	Log
		Crea	te New A	Admin	istrator			
Fir	rst Name *	First Name				2		
La	ist Name *	Last Name						
	Email *	example123@g	ımail.com					
	Phone *	123-123-1234						
	Gender	Male 🖲	Female (C	Other O			
Us	er Name *	User Name						
Р	assword *	Password						
			Cre	eate				



Edit Admin

Clinic of Fort Worth

	Ame Home	Calendar	Volunteers	Check in/out	Administrators	A Logout
	Edit Adr	ninistra	itor			
First Name *	admin			B)	
Last Name *	admin]	
Email *	volunteer@meryclinic	.org				
Phone						
Gender	O Male ⊙ Fem	ale O Other				
User Name *	admin					

.....

Submit

Password *

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Delete Admin

J	Mercy Clinic		Home Calenda	r Volunteers Check in		a administ
			Administrat	tors		
	First	Last	Email	Phone	Id	Edit
	admin	admin	volunteer@meryclinic.org		22	Edit
	Minh	Nguyen	ntm1406@gmail.com	817-773-6020	302	Edit
	Warren	Riley	warren.riley@tcu.edu	123-123-1234	422	Edit
	Cole	Weber	c.weber7@tcu.edu	555-555-5555	432	Edit
	Wynn	Pho	u.pho@tcu.edu	669-225-9193	492	Edit

kenzie.clarke@tcu.edu

Clarke

Kenzie



123-405-4305

Are you sure you want to delete?

1

8=

Create Admin

Delete

Delete

Delete

Delete

Delete

Delete

522

Edit

Delete Cancel

Volunteer Features

View Volunteers

Hercy	Clinic of Fort Worth			nme Calend		Check in/out	Administra	ators	Z Logout
First Name	Last Na	ame	a x	Volunte	ers	Create V	olunteer	Genera	te Report
First	Last	Email		Phone	Department	Role	Hours	Edit	Delete
Abby	Ashlock				Support	Student - TCU	View	Edit	Delete
Abigail	Sprunger				Medical	Student - UNT Med	View	Edit	Delete
Affan	Ahmed				Support	Student - UNT Med	View	Edit	Delete
Alberto	Ramirez				Support	Spanish Translator	View	Edit	Delete
Alexa	Calcagno				Medical	Student - UNT Med	View	Edit	Delete
Alexa	Westberg		client information	on*	Medical	Student - UNT Med	View	Edit	Delete
Alexander	Tran				Support	Pharmacist	View	Edit	Delete
Alexandra	Wuller				Medical	Student - TCU	View	Edit	Delete
Alfred	Abraham				Medical	Student - UNT Med	View	Edit	Delete
Alice	Stratton				Medical	Nurse	View	Edit	Delete
Alice	Liu				Support	п	View	Edit	Delete



Create Volunteer

Mercy Cli

vic	Home Calendar	Volunteers	Check in/out	Administrators	Log
	Create Volunte	eer			
First Name	First Name		a		
Last Name	Last Name				
Gender	◎ Male ◎ Female ◎ Other				
Department	Medical •				
Role	Role				
Birthday:	mm/dd/yyyy				
Email	Email				
Phone	123-123-1234				
	Submit				



Edit Volunteer



	Ame Home	Calendar	Volunteers	Check in/out	Land Administrators	Logou
	Edit V	oluntee	er			
First Name	Abby			1		
Last Name	Ashlock					
Gender	© Male © Fer	nale 🖲 Other				
Department	Supp	ort •				
Role	Student - TCU	J				
Email	a.b.ashlock@	tcu.edu				
Phone	661-993-0893	3				
		Submit				

Delete Volunteer

Mercy	Clinic of Fort Worth			me Calenda	ar Volunteers	Check in/out	Administra	ators	A Logout					
First Name	Last N	Name	Q x	Volunte	ers	Create	/olunteer	Genera	te Report					
First	Last	Email		Phone	Department	Role	Hours	Edit	Delete					
Abby	Ashlock				Support	Student - TCU	View	Edit	Delete					
Abigail	Sprunger				Medical	Student - UNT Med	View	Edit	Delete					
Affan	Ahmed				Support	Student - UNT Med	View	Edit	Delete					
Alberto	Ramirez			Support		Spanish Translator	View	Edit	Delete					
Alexa	Calcagno				Medical	Student - UNT Med	View	Edit	Delete					
Alexa	Westberg		client informati	ion*	Medical	Student - UNT Med	View	Edit	Delete					
Alexander	Tran				Si					_				
Alexandra	Wuller				м	Arovoi					onti	to d	alat	~?
Alfred	Abraham				М	Are you	ISU	e	you	VV	anı	to u	eiei	e?
Alice	Stratton				м									
Alice	Liu				Si			_			_			
								De	lete	Cano	cel			

View Volunteer Hours

Mercy Clinic		Ame Home	Calendar	Colunteers	Check in/out	Administrato	A Drs Logout	
Volunteer Hour Report Warren Riley:								
Back		VVdIIt	en Riley.			Add Hours	Generate Report	
Date	Check In	Check Out		Duration	Edit	Del	ete	
2020-04-01	4:00 P.M.	8:00 P.M.		04:00:00	Edit	Del	ete	
2020-04-08	5:00 P.M.	6:00 P.M.		01:00:00	Edit	Del	Delete	
2020-04-15	4:30 P.M.	7:00 P.M.		02:30:00	Edit	Delete		
2020-04-22	5:00 P.M.	7:00 P.M.		02:00:00	Edit	Delete		
2020-04-29	3:00 P.M.	5:00 P.M.		02:00:00	Edit	Del	Delete	

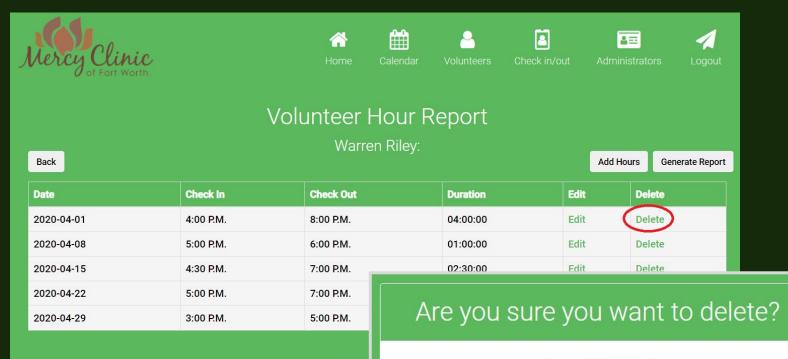




Edit Volunteer Hours

Clinic of Fort Worth		Ame Home	Calendar	Colunteers	Check in/out	Administrators
	Back	Ec	dit Time	2		
	Date:	04/01/2020				
	In Time:	04:00 PM				
	Out Time:	08:00 PM				
			Submit			

Delete Volunteer Hours



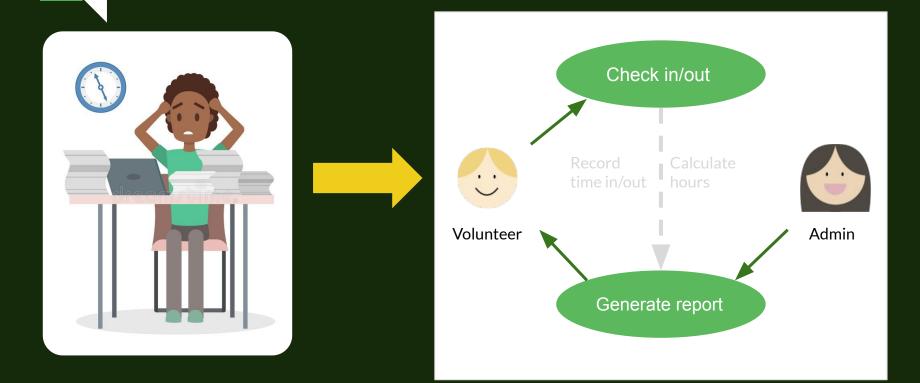
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Check in/out Feature









Demo

Extra Features



Log in

Mercy Clinic Admin Portal

Ergot password?



	Mercy Clinic Admin Portal
	Forgot password?
1	admin
	••••••
	Login



	Forgot Password				
1	ntm1406				
	ntm1406@gmail.com				
	Send Email				
	Don't remember these? Email volunteer@mercy-clinic.org for help.				





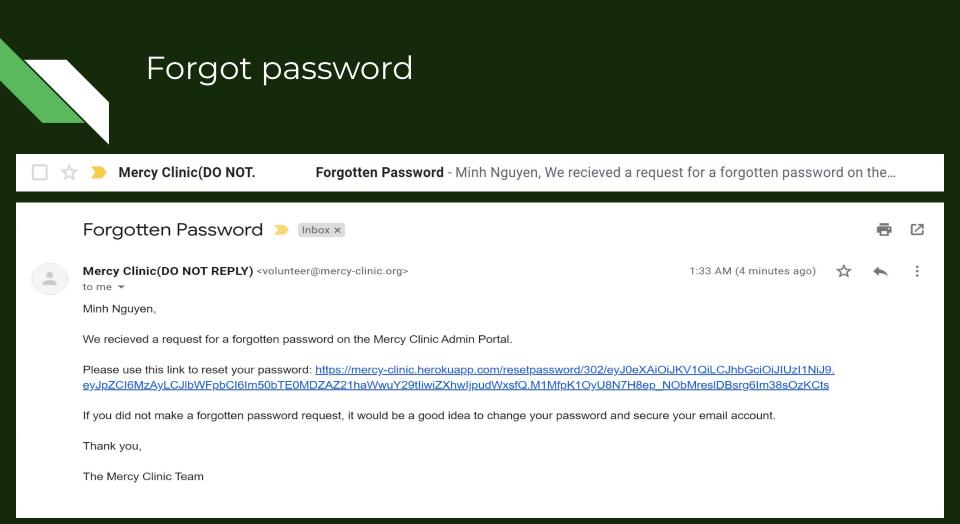
Forgot password?

Email has successfully been sent!

1 username

password

Login





Reset Password

1	ntm1406
	••••••
	Reset Password
	Don't remember these? Email volunteer@mercy-clinic.org for help.



Mercy Clinic Admin Portal

orgot password?

Password updated successfully

username

password

8





Hashed password

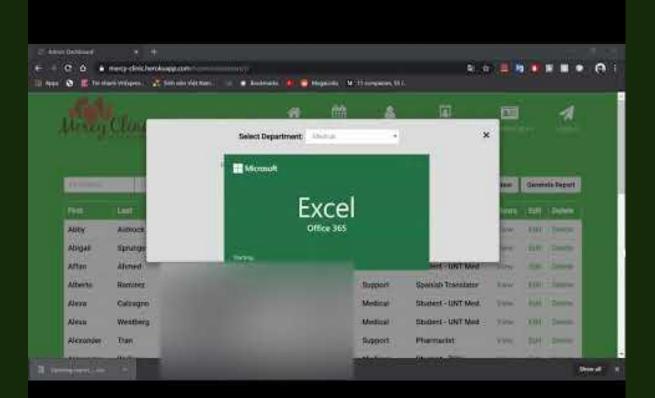
- Hashing:
 - \circ One way function
 - Irreversible

password

\$2a\$10\$lv8PygKMFOP9st6/1tIL9uoENcYhlGcdRIErF2LW5OtvofKk58.Aq



Report Generation



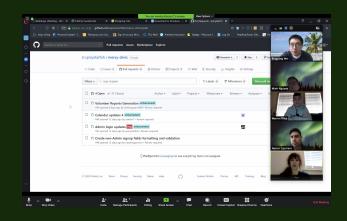
What We Learned?





What We Learned

- New technologies (Heroku, Git, & Nodejs)
- Quarantine coding is hard
- Keep clients in the loop







Credits

- The Mercy Clinic Administrative ightarrowStaff
- Dr. Bingyang Wei ightarrow
- **TCU** Computer Science ightarrow

Department

