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CS 408
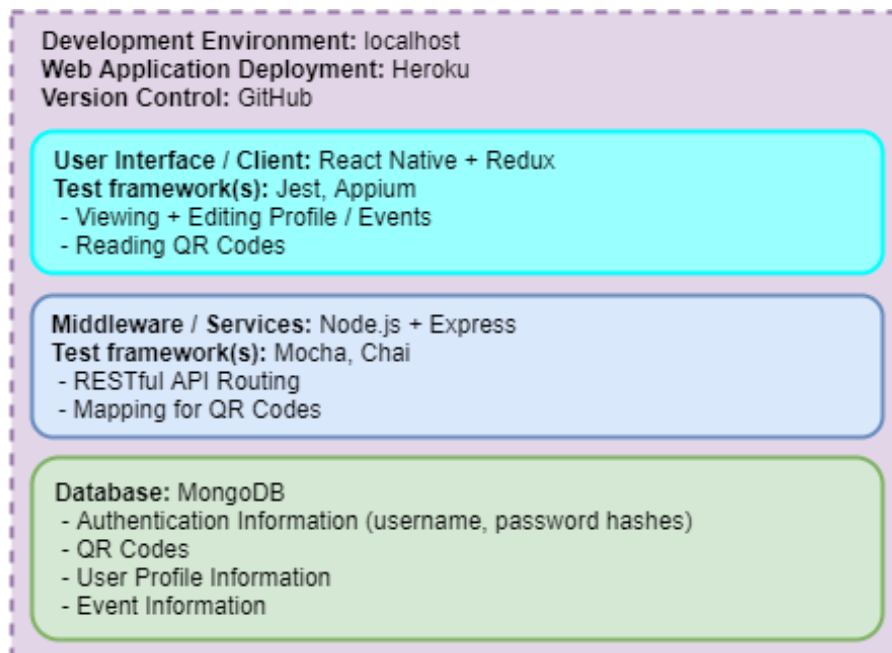
Project Backlog

1 Problem Statement

For many conferences there is no ubiquitous method of keeping attendance and other information at hand. For events such as Hackathons, Career Fairs and *-Cons, this information is usually kept through paper slips with hole punches for attendance and a very outdated form of paper records for other details. There is also no way for members to see other members attending the same events.

2 Background Information

As a team, if we ever go to a conference or event alone or together, there usually is no central location for conference details and information. Organization is either usually done through paper forms or single purpose apps such as the "2017 IR (Industrial Roundtable) app". We find it both unnecessary and extraneous to download several apps just for different events. Instead we plan to make a centralized app so event organizers and users can have all the data in one singular event planner. This app will be primarily revolve around features associated with scanning and retrieving information from the QR code provided for all participants.

3 Environment

We will be developing for both iOS and Android phones. We will be using React Native to achieve this as it reduces to a native app for each OS. We will use GitHub for VCS and Slack for communication. A detailed tech stack can be seen in the following figure.

Development Environment: localhost
Web Application Deployment: Heroku
Version Control: GitHub

User Interface / Client: React Native + Redux
Test framework(s): Jest, Appium
- Viewing + Editing Profile / Events
- Reading QR Codes

Middleware / Services: Node.js + Express
Test framework(s): Mocha, Chai
- RESTful API Routing
- Mapping for QR Codes

Database: MongoDB
- Authentication Information (username, password hashes)
- QR Codes
- User Profile Information
- Event Information

4 Functional Requirements

Backlog ID	Functional requirements	Hrs	Status
1	**As a user, I would like to have a have a functional profile page.**	25	Completed in sprint 1
2	**As a user, I would like to be able to upload a profile picture.**	10	Completed in sprint 2
3	**As a user, I would like to be able to put personal information on my profile.**	10	Completed in sprint 1
4	**As a user, I would like to be able to put my hyperlinks to my other social media accounts.**	10	In progress, moved to sprint 3
5	**As a user, I would like to see other users who are attending the same event as me.**	10	Completed in sprint 2
6	**As a user, I would like a functional QR scanner to register for events and record attendance.**	25	Completed in sprint 1
7	**As a user, I would like a functional settings page.**	15	Completed in sprint 2
8	**As a user, I would like the settings page to have an option to turn on and off push notifications.**	10	Incomplete, moved to sprint 3
9	**As a user, I would like to reopen my account and start where I left off last.**	3	Completed in sprint 2

10	**As a user, I would like to see push notifications from admins on information of events that I have registered for.**	2	Incomplete, moved to sprint 3
11	**As a user, I would like to be able to download this application on an iOS device.**	5	Completed in sprint 1
12	**As a user, I would like to be able to download this application on an Android device.**	5	Completed in sprint 1
13	**As a user, I would like to have a history page to be able to view previous events I have attended.**	20	Completed in sprint 2
14	**As a user, I would like to be able to see the people from previous events I have attended.**	10	Completed in sprint 2
15	**As a user, I would like to be able to see the sponsors who are sponsoring the event.**	10	Incomplete, moved to sprint 3
16	**As a user, I would like to be able to see previous sponsors of events I have attended.**	20	Incomplete, moved to sprint 3
17	**As an event organizer, I would like to be able to create an event from my profile.**	10	Completed in sprint 2
18	**As an event organizer, I would like to be able to see who is registered for my events.**	10	Completed in sprint 2

19	**As an event organizer, I would like to be able to send push notifications to people registered for my event.**	10	Incomplete, moved to sprint 3
20	**As an event organizer, I would like to be able to see the attendance of my event via the QR scanner.**	20	Completed in sprint 1

21	As an event organizer, I would like to be able to see previous events I have organized.	10	Completed in sprint 2
22	As an event organizer, i would like to be able to see people who have attended my previous events.	15	Completed in sprint 2
23	As an event organizer, I would like to have a event home page.	20	Completed in sprint 2
24	As an event organizer, I would like to be able to place a description for the event home page.	10	Completed in sprint 2
25	As an event organizer, I would like to be able to place pictures on my event home page.	10	Completed in sprint 2
26	As an event organizer, I would like to be able to add other users as admin.	13	Completed in sprint 2
27	As an event organizer, I would like to be able to add sponsors.	12	Completed in sprint 2
28	As a sponsor, I would like to be able to view members who have attended the events.	10	Completed in sprint 2
29	As a sponsor, I would like to be able to view all the events I have sponsored.	10	Completed in sprint 2
30	As a sponsor, I would like to be able to send push notifications to attendees.	10	Completed in sprint 2
31	As an event organizer, I would like to add members to an event.	15	Completed in sprint 2
32	As an event organizer, I would like to be able to remove members from events.	15	Completed in sprint 2
33	As an event organizer, I would like to be able to remove	15	Complet

	sponsors.			ed in sprint 2
34	**As a sponsor, I would like to be able to withdraw from an event.**	20	Incomplete, moved to sprint 3	
35	**As a developer, I would like to connect this app to an external database to not waste phone storage.**	25	Incomplete, moved to sprint 3	
36	**As an event organizer, I would like to be able to add sponsors.**	15	Completed in sprint 2	
37	**As a user, I would like to be able to withdraw from an event**	15	Completed in sprint 2	
	total:	480		

5 Non-Functional Requirements

1. Have data saved in a cloud database for easy recovery and reliability
2. Have a Username/password key for security
3. The interface must be user-friendly and easy to navigate.
4. Have users of the application
5. Have fast response times.
6. Ensure that users can only access their own content, not others'
7. Only allow access to login if internet access is enabled and connected.
8. Use the application from different devices.

6 Use Cases

ID	Name	Actor actions	System responses
1	**Functional Profile page**	**1. User logs in** **3. Selects Profile Page**	**2. Loads homepages** **4. Loads Profile Page**
2	**Upload profile picture**	**1. Selects Profile picture** **3. Selects Edit picture** **5. Selects Picture**	**2. Displays profile Page** **4. Opens photos application** **6. Selection Dialog appears**

		7. Confirms Selection	8. Dialog Disappears
3	**Personal Information on profile**	**1. Selects Profile Description** **3. Edits Description** **5. Confirms Description**	**2. Displays Profile Description** **4. Description Dialog appears** **6. Description Dialog disappears**
4	**Social media hyperlinks**	**1. Selects Profile Social Media** **3. Edits hyperlinks** **5. Confirms Description**	**2. Displays Social Media** **4. hyperlinks Dialog appears** **6. Description Dialog disappears.**
5	**View other attending users**	**1. Select Event** **3. Select Attendees**	**2. Event page loads** **3. Attendees page loads**
6	**Functional QR scanner**	**2. Place phone to take picture of QR code** **3. Automatically scans**	**1. Application opens** **4. Confirmation dialog appears** **5. Confirmation dialog disappears.**
7	**Functional Settings page**	**1. User logs in** **3. Selects Settings Page**	**2. Loads homepages** **4. Loads Settings Page**
8	**Push notifications for users**	**1. Select settings** **3. Toggle push notifications on/off**	**2. Setting page opens**
9	**Continue where application left off**	**1. Open application**	**2. Application loads where application last left off**
10	**Push notifications from admins**	**N/A**	**1. Push notification appears on device**
11	**Download on iOS**	**1. Selects download on app store**	**2. Application can be viewed on device**
12	**Download on android**	**1. Selects download on**	**2. Application can be**

		google play store	viewed on device
13	History Page for user	1. User logs in 3. Selects "Past Events" Page	2. Loads homepages 4. Loads "Past Events" Page
14	View people from previous events as user	1. Selects "Past Events" Page 3. Select Event 5. Select Attendees 7. Select Person	2. Loads "Past Events" Page 4. Event page loads 6. Attendees page loads 8. Person Profile loads
15	View sponsors as user	1. Select Event 3. Select Attendees 7. Select Person	2. Event page loads 4. Attendees page loads 8. Person Profile loads
16	View sponsors from previous events as user	1. Selects "Past Events" Page 3. Select Event 5. Select Sponsors 7. Select Sponsor	2. Loads "Past Events" Page 4. Event page loads 6. Sponsors page loads 8. Sponsor Profile loads
17	Create event	1. Select "Create event" button 3. Add event description 4. Add event images 5. Select "Create event"	2. Create event popup appears 6. "Event Created" dialog appears and disappears
18	View who is registered for events as Event Organizer (EO)	1. Select Event 3. Select Attendees	2. Event page loads 3. Attendees page loads
19	Send push notifications as EO	1. Select "send notification" 3. Notification appears on user's screen	2. Notification sends to users
20	View attendance via QR scanner as EO	2. Place phone to take picture of QR code 3. Automatically scans	1. Application opens 4. List of attendees is shown
21	View previous organized events as EO	1. Selects "Past Events" Page	2. Loads "Past Events" Page

		3. Select Event	4. Event page loads
22	View people who attended previous events as EO	1. Selects "Past Events" Page 3. Select Event 5. Select Attendees 7. Select Person	2. Loads "Past Events" Page 4. Event page loads 6. Attendees page loads 8. Person Profile loads
23	Event homepage	1. Select "Events" 3. Select event	2. Loads list of events 4. Loads event homepage
24	Event description	1. Select "Events" 3. Select event 5. Description will be on homepage	2. Loads list of events 4. Loads event homepage
25	Event pictures	1. Select "Events" 3. Select event 5. Select "Pictures"	2. Loads list of events 4. Loads event homepage 6. Loads event pictures
26	Add user as admin	1. Select "Events" 3. Select event 5. Select "add user" 6. Check "make user admin" on user page	2. Loads list of events 4. Loads event homepage 5. User page comes to fill out
27	Add sponsors	1. Select "Events" 3. Select event 5. Select "add sponsor"	2. Loads list of events 4. Loads event homepage 5. Sponsor page comes to fill out
28	View members as a sponsor	1. Log in as a sponsor 3. Select Event 5. Select Attendees	2. Sponsor homepage loads 4. Event page loads 6. Attendees page loads
29	View events as sponsor	1. Log in as a sponsor 3. Select Events	2. Sponsor homepage loads 4. Events page loads
30	Send push notifications as sponsor	1. Select "send notification" 3. Notification appears on	2. Notification sends to users

		user's screen	
31	Add members as EO	1. Select "Events" 3. Select event 5. Select "add EO"	2. Loads list of events 4. Loads event homepage 5. EO page comes to fill out
32	Remove members as EO	1. Select "Events" 3. Select event 5. Select member 7. Select remove member	2. Loads list of events 4. Loads event 6. Member page loads 8. Member is removed
33	Remove sponsors as EO	1. Select "Events" 3. Select event 5. Select sponsors 7. Select remove sponsor	2. Loads list of events 4. Loads event 6. Sponsors page loads 8. Sponsor is removed
34	Withdraw from event as sponsor	1. Select "Events" 3. Select event 5. Select "Withdraw" 7. Click "Yes"	2. Loads list of events 4. Loads event homepage 6. Confirmation to withdraw as sponsor 8. Sponsor is removed
35	Connect to database	1. Application is opened	2. Ensuring internet connection is enabled and connected, connection to database is made
36	Add sponsors as EO	1. Select "Events" 3. Select event 5. Select "add sponsor"	2. Loads list of events 4. Loads event homepage 5. Sponsor page comes to fill out
37	Users can withdraw from events	1. Select "Events" 3. Select event 5. Select "Withdraw" 7. Click "Yes"	2. Loads list of events 4. Loads event homepage 6. Confirmation to withdraw 8. User is removed