**Sprint 1 Planning Document**

Team 19

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**Sprint Overview**

For this sprint we are going to implement the server, database(s) and make the android client interact with the server. The client will have limited functionality like logging in through Google+, joining communities, making events and seeing the list of people in communities.

The team leader is Alec DeFano. Our meeting schedule will be typically around when class meets with extra meetings every week whenever necessary.

We will have to implement a server from scratch and make it work with the android client. Our team’s experience with such a task is limited to none so it will be a challenge. In addition populating the screen with the functional dynamic features will not be easy but will lay down the foundations for the rest of the app.

**Current Sprint Detail**

**First User story:**

As a user, I would like to login using an existing Google+ account.

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| --- | --- | --- | --- |
| Task Number | Description | Estimated Time | Owner |
| 1 | Research how to integrate Google APIs. | 2 hours | Alec |
| 2 | Implement the ability to login with Google. | 6 hours | Alec |
| 3 | Implement the ability to get profile picture from Google+ service. | 2 hours | Alec |
| 4 | The new user will be added to Users database. | unknown | Alec |

**Acceptance Criteria:**

1. Given that a user already exists with the given google login, the user will not be added to the database.
2. Given that the user does not have a Google+ account, they will not be able to login or sign up and use the app.

**Second User story:**

As a user, I would like to create my own communities and be the community founder.

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| Task Number | Description | Estimated Time | Owner |
| 1 | Add UI elements to allow to start creating a community. | 1 hour | Alec |
| 2 | Implement options for creating the community. | 2 hours | Hamza |
| 3 | Add UI to take user through the creation process. | 4 hours | Alec |
| 4 | Add new community to database after it is created. | 3 hours | Hamza |
| 5 | Implement ability for the user to invite people to the community. | 4 hours | Hamza |
| 6 | Update user profile to indicate they are a community leader. | 2 hours | Hamza |

**Acceptance Criteria:**

1. Given that a community with the same name and category already exists, the user will be prompted to choose a new name before they can continue.
2. Given that a user is creating a community, there should be categories and subcategories that the user can select.

**Third, Fourth, and Fifth User Stories**:

As a community member, I would like to view listed calendar events.

As a community member, I would like to see information about the events.

As a community leader, I would like to view events on the community calendar.

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| --- | --- | --- | --- |
| Task Number | Description | Estimated Time | Owner |
| 1 | Implement a calendar on which to store events. | 5 hours | Travis |
| 2 | Add UI for calendar. | 3 hours | Travis |
| 3 | Allow users to click on an event in the calendar. | 1 hour | Travis |
| 4 | Display information regarding the event. | 1 hour | Travis |
| 5 | Allow users to RSVP to events. | 2 hours | Travis |

**Acceptance Criteria:**

1. Given that a user is not a member of the community they are viewing, the option to RSVP will not be present.
2. Given that a user has already RSVP’d to an event, the button to RSVP will be replaced with a button allowing the user to withdraw their RSVP.

**Sixth User Story**:

As a community leader, I would like to add events on the community calendar.

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| --- | --- | --- | --- |
| Task Number | Description | Estimated Time | Owner |
| 1 | Add UI button to post event. | 1 hour | Travis |
| 2 | Allow leader to fill in details about event and submit. | 2 hours | Travis |
| 3 | The event is added to community calendar. | 1 hour | Travis |

**Acceptance Criteria:**

1. Given that a community event has already been added that takes place at the same time as the one being added, the leader will not be able to add the new event.
2. Given that the user is not a leader in the community they are viewing, they will not be able to add events.
3. Given that a community leader wants to add an event, the event cannot be added to a day which has already passed.

**Seventh User Story**:

As a community leader, I would like to edit events on the community calendar.

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| --- | --- | --- | --- |
| Task Number | Description | Estimated Time | Owner |
| 1 | Add UI for editing an event. | 1 hour | Travis |
| 2 | Allow for event details to be changed. | 1 hour | Travis |
| 3 | Update the changes to the database. | 2 hours | Hamza |

**Acceptance Criteria:**

1. Given that the user is not a leader in the community, the edit event option will not be available.
2. Given that the leader has deleted necessary event details (time, place, etc) and has not added in new information, the edit will not be saved, and previous information will still be displayed.
3. Given that the event has been saved, when the community leader edits an event the server will check to make sure that the edited event is not blank with no information.

**Eighth User Story**:

As a community leader, I would like to delete events on the community calendar.

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| Task Number | Description | Estimated Time | Owner |
| 1 | Add UI for deleting an event. | 1 hour | Travis |
| 2 | Create secondary pop-up UI box to confirm the deletion. | 1 hour | Travis |
| 3 | Delete event from community calendar. | 1 hour | Travis |
| 4 | Update the changes to the database. | 2 hours | Hamza |

**Acceptance Criteria:**

1. Given that a user is not a leader, the option to delete an event will not be present.
2. Given that the event has already occurred, when a community leader tries to delete an event a message will display stating that the event has already passed.
3. Given that the event will occur within the next 24 hours, when a community leader wishes to delete an event, the server will push notifications of the change to all users who have RSVP to the event.

**Nineth User Story**:

As a community member, I would like to invite anyone to my communities.

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| Task Number | Description | Estimated Time | Owner |
| 1 | Create UI that allows users to select who to invite to the community. | 6 hours | Alec |
| 2 | Implement ability for the server to send a community invitation to the invited user. | 2 hours | Khanh, Nick |
| 3 | Create an invitation notification for the invited user. | 2 hours | Hamza |
| 4 | If the invited user does not accept, delete the invitation notification and request. | 1 hour | Khanh, Nick |
| 5 | If user accepts invitation, implement ability for the server to add the invited user into the community database. | 1 hour | Khanh, Nick |
| 6 | If user accepts invitation, update the invited user’s profile to indicate that the user has joined the community. | 1 hour | Khanh, Nick |

**Acceptance Criteria**:

1. Given that the invitee does not use the app, when the app user wants to invite them the server should send an email with an attached link to download the app.
2. Given that the invitee declines the invitation when the user sends an invite, the inviter should receive a message saying that the invitee has declined the invitation to join the community.
3. Given that the invitee is already a member of the community when the user sends an invite, the user is told that the invitee is already a member of the community.

**Tenth User Story**:

As a community member, I would like to be able to leave any community that I am a part of.

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| --- | --- | --- | --- |
| Task Number | Description | Estimated Time | Owner |
| 1 | Create UI that lists all communities which the current user belongs to with option to leave community. | 4 hours | Alec |
| 2 | Create secondary UI prompting for verification of removal from selected community. | 1 hour | Alec |
| 3 | If verified, implement ability for the server to remove the user from the selected community. | 2 hours | Khanh, Nick |
| 4 | If verified, update the user’s profile to remove community from list of joined communities. | 2 hours | Khanh, Nick |

**Acceptance Criteria:**

1. Given that the user is not in the community which they are trying to leave, when they look through the list of communities they are in they will not see that community present.
2. Given that the user has left the community, any user activity in the community will not be deleted.

**Eleventh User Story**:

As a community member, I would like to see a list of members in the community.

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| --- | --- | --- | --- |
| Task Number | Description | Estimated Time | Owner |
| 1 | Create UI to view all members of a community. | 4 hours | Alec |
| 2 | Implement ability for the server to retrieve community members from the community database. | 2 hours | Khanh, Nick |
| 3 | Implement ability for the server to display all community members on UI screen. | 2 hours | Khanh, Nick |

**Acceptance Criteria:**

1. Given that the community has no users, when a user looks up the list of members in the community the UI should display a message stating that there are no users in the community.
2. Given that the community has a large amount of users, when a community member wants to see a list of all members, the UI will show pages with a certain number of users per page.
3. Given that the community has a large amount of users, when a community member wants to see a list of all members, the database should send the list of users quickly.

**Twelfth User story:**

As a user, I would like to browse a clean UIthrough the android interface

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| Task Number | Description | Estimated Time | Owner |
| 1 | Plan and implement main page UIs. | 6 hours | Alec |
| 2 | Allow users to switch pages by buttons. | 6 hours | Alec |
| 3 | Implement transitions between pages. | 2 hours | Alec |

**Acceptance Criteria:**

1. The user will be able to reach every main page.
2. The user will be able to go back to the main page or into any specific page.

**Thirteenth User story:**

The app will pull its content from a backend server.

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| --- | --- | --- | --- |
| Task Number | Description | Estimated Time | Owner |
| 1 | Create server design. | 2 hours | Hamza |
| 2 | Define communication protocol between server and client. | 1 hours | Hamza |
| 3 | Define database format. | 2 hours | Hamza |
| 4 | Implement server. | 8 hours | Hamza |
| 5 | Set up database. | 2 hours | Hamza |

**Acceptance Criteria:**

1. Given that the client makes a request, the server provides the correct response to each client request.
2. Given that the client makes a request, the server responds without a significant delay.
3. Given that multiple clients make a request, the server handles all of them simultaneously.

**Remaining Backlog**

**General User Functions:**

As a user, I would like to:

1. see a brief tutorial about the app.
2. see who in my contacts list is already using the app.
3. control the frequency and manner of receiving notifications.
4. search communities based on event activity levels.
5. search communities based on category or name.
6. search communities based on my stated interests.
7. view automatically generated suggestions based on my interests.

**User Profile Functions:**

As a user, I would like to:

1. choose what to display to other users.
2. see my participation rating.
3. give another user a point.
4. see the profile of other users of the app.
5. see whether the user is a leader or member of any community.

**Calendar Event Functions:**

As a community member, I would like to:

1. have the group’s calendar synced to my own calendar.
2. be notified about community events.

**Attending Event Functions:**

As a user attending community events, I would like to:

1. share pictures and videos of events I have attended.
2. view how many members are attending events.
3. view which members are attending events
4. be able to check in when I arrive for an event.

**Neighborhood Functions:**

As a user in the neighborhood, I would like to:

1. view a list of all communities in the neighborhood.
2. view a calendar with all planned events of communities in the neighborhood.

**Community Functions:**

As a community member, I would like to:

1. message other people in my communities.
2. see a community board of messages.
3. create a crew within of a community.
4. create a hangout to meet other members.
5. browse hangouts that have already been created.
6. join existing hangouts.

As a closed community member, I would like to:

1. send a notification to all members of the community.

**Community Board Functions:**

As a community member, I would like to:

1. see a feed which shows recent activity in the community.
2. see a board of user messages.
3. be able to comment on user messages.

**Hangout Functions:**

As a community member, I would like to:

1. create a hangout.
2. leave a hangout.
3. edit my posted hangouts.
4. view hangouts posted by other community members.

**Crew Functions:**

As a member of a crew, I would like to:

1. have a chat with other members in my crew.
2. invite members to my crew.
3. see a list of members in my crew.
4. see the profile page of the members in my crew.
5. send a notification to members of my crew.

**Community Leader Functions:**

As a community leader, I can:

1. post special messages on the community board.
2. upload or import from the web a community profile picture.
3. appoint other users to position of leader.
4. leader the community board.

Nonfunctional:

1. The user interface should be clean and simple.
2. The app will display very little to no embedded advertisements.
3. The backend end server will maintain a database of communities and users.
4. The server must be able to handle a large amount of traffic.
5. A donations option to be available if more budget is required for maintenance.
6. Integrate the use of Google Maps and geolocation (if time available).