PUrfect Dining

TEAM 23 : Product Backlog

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Overview of Sprint 1:
In our first sprint, our main objective will be to set up all the basic core functionalities of the different components that combine to make our app (both web and android). Specifically, we will be focusing on setting up communication between user and the server, setting up a functional and efficient database, user login/signup/password reset, and a basic homepage. The reason we choose to focus on these things in particular is because we feel it would give us a solid base to build on moving forward in the next few sprints.

Scrum Master:
Eric Baeza

Meeting Plan:
Wednesdays, 5:00 PM; Saturdays: 6:00 PM

Risks and Challenges:
The largest challenge will be to set up and maintain our database. The repercussions of not doing this is that the remaining functionalities we aim to implement in this Sprint and the remaining Sprints might be jeopardized and our workload for the following Sprints will be larger. Furthermore, some of the members in our team will have to learn new technologies required for us to complete the goals of this sprint, which will require more time due to the steep learning curve associated with the technologies that are being used.

Current Sprint Detail

User Story #1
As a web user, I would like to create an account for PUrfect Dining.

#	Description	Estimated Time	Owner
1	Setup backend server with Express framework	4 hours (each)	Kailasam, Eric
2	Setup Backendless database	3 hours (each)	Kailasam, Eric
3	Setup basic form to sign up for new account	6 hours	Eric
4	Implement server logic to create new account	4 hours	Tung
5	Testing	2 hours	Eric

Acceptance criteria:
- Given that the backend has been set up correctly, the user will be provided with a login screen with sign in and sign up buttons.
- Given that the buttons work, when clicking this button they will be given a choice to create an account by entering their email, and a password.
- Given that the information is correctly received, we verify the provided information and then account is created and the user is logged in.

User Story #2
As a Android user, I would like to create an account for PUrfect Dining.

#	Description	Estimated Time	Owner
1	Create new Android Studio project and setup libraries	1 hour	Aashir
2	Setup Backendless with Android	0.5 hours	Aashir
3	Setup dynamic user account creation in database	0.5 hours	Aashir
4	Create sign up activity and implement functionality	3 hours	Aashir
5	Testing	1.5 hours	Tung

Acceptance criteria:
- Given that the backend has been set up correctly, the user will be provided with a login screen with sign in and sign up buttons.
- Given that the buttons work, the user will be able to sign into their account or sign up respectively.
- Given that the information is sent to the server, we verify the provided information and then account is created and the user is logged in and provided the main activity.

User Story #3
As a web user, I would like to login to and logout of my PUrfect Dining account.

#	Description	Estimated Time	Owner
1	Add authentication system in the server	5 hours	Tung
2	Create a simple login form page to enable user login	5 hours	Arjun
3	Enable user logout	3 hours	Kailu
4	Testing	3 hours	Arjun

Acceptance criteria:
- Given that a login screen has been correctly created, a username field and a password field will be provided for users to enter their details.
- Given that a "Login" button has been correctly implemented and provided for the users, clicking it will either display that the information entered into the two fields is incorrect, or the user will be redirected to the home page.
- Given that user login has been correctly implemented, a user who is currently logged in will have the option of logging out by choosing the logout option viewed by clicking a settings icon provided on the navigation bar.

User Story #4
As an Android user, I would like to login to and logout of my PUrfect Dining account.

#	Description	Estimated Time	Owner
1	Setup up proxy for BackendlessUser	0.5 hours	Aashir

#	Description	Estimated Time	Owner
2	Setup Realm as local datastore	2 hours	Aashir
3	Create login, logout and main activities	2 hours	Aashir
4	Implement login/logout amd handle local datastore create/delete respectively	3 hours	Aashir
5	Testing	1.5 hours	Tung

Acceptance criteria:
- Given that a login screen has been correctly created, a username field and a password field will be provided for users to enter their details.
- Given that a "Login" button has been correctly implemented and provided for the users, clicking it will either login and have their login persisted or display that the information entered into the two fields is incorrect.
- Given that user login has been correctly implemented, a user who is currently logged in will have the option of logging out by choosing the logout option viewed by tapping on "Logout" on their profile screen.

User Story #5
As a web user, I would like the ability to recover my password.

#	Description	Estimated Time	Owner
1	Create a simple form asking for user's email	2 hours	Eric
2	Implement backend logic to send a password reset instruction	3 hours (each)	Kailu, Eric
3	Testing	2 hours	Eric

Acceptance criteria:
- Given that the login screen is correctly created, the user is provided with a button indicating that they forgot their password.
- GIven that the button is correctly implemented, upon clicking the button the user is redirected to a screen asking to enter their email.
- Given that they successfully entered their email correctly, they will receive an email containing a link to guide them to reset their password.

User Story #6
As an Android user, I would like the ability to recover my password.

#	Description	Estimated Time	Owner
1	Create activity for recovering password	2 hours	Aashir
2	Setup server request to generate reset email	2 hours	Aashir
3	Testing	1 hour	Arjun

Acceptance criteria:
- Given that the login screen is correctly created, the user is provided with a button if they forgot their password.
- GIven that the button is correctly implemented, upon clicking the button the user is redirected to a screen asking to enter their email.
- Given that they successfully entered their email correctly, they will receive an email containing a link to guide them to reset their password.

User Story #7
As a web user, I would like to view the names of all individual dining courts.

#	Description	Estimated Time	Owner
1	Create basic homepage that lists all the dining courts	3 hours	Arjun
2	Make the page adaptable and robust to fit all screen sizes	5 hours	Tung
3	Implement routes for each dining court to open separate pages	3 hours	Kailu
4	Testing	2 hours	Arjun

Acceptance criteria:
- Given that the home screen has been correctly created, the user is provided with a list of existing dining courts.
- Given that the list is successfully loaded, users will be allowed to scroll through the list and select a dining court.
- Given that a dining court is selected, the user is redirected to a page specific to the dining court that contains details specific to that dining court.

User Story #8

As an Android user, I would like to view the names of all the individual dining courts.

#	Description	Estimated Time	Owner
1	Create data models for database	1 hour	Aashir
2	Request data from server and save to local datastore	3 hours	Aashir
3	Create activity to display list and for each respective dining court	3 hours	Aashir
4	Testing	2 hours	Arjun

Acceptance criteria:
- Given that the home screen has been correctly created, the user is provided with a list of existing dining courts.
- Given that the list is successfully loaded, users will be allowed to scroll through the list and select a dining court.
- Given that a dining court is selected, the user is redirected to a page specific to the dining court that contains details specific to that dining court.

User Story #9

As a web user, I would like to comment on the specific dining courts.

#	Description	Estimated Time	Owner
1	Only allowed login user to comment	3 hours	Kailu
2	Show all current comments of a particular dining court on the view page	3 hours	Arjun
3	Show total number of current comments	2 hours	Eric
4	User can edit their own comments	3 hours	Kailu
5	User can delete their own comments	3 hours	Kailu
6	Insert/query all the comments to the database	4 hours	Tung
7	Testing	3 hours	Arjun

Acceptance criteria:
- Given that the pages for each dining court are created successfully, the user is displayed the comment section specific to that dining court.
- Given that the comment section is successfully loaded, the user is then provided a text box where they can enter their comments and a post button. Upon clicking on the post button, the users comments are added to the list of comments on the page.
- Given that the user successfully posted a comment, the comment the user posted on the page consists of two buttons, an edit and a delete button. This gives the user the freedom to update or remove their comments.

User Story #10
As an Android user, I would like to comment on the specific dining courts.

#	Description	Estimated Time	Owner
1	Validate logged in user	1 hour	Aashir
2	Display: top comments, total number of comments for each dining court	3 hours	Aashir
3	Implement functionality to edit and delete own comment(s) Create activity for functionality above	3 hours	Aashir
4	Create activity to enter new comment. Save new comment to server	2 hours	Aashir
5	Testing	1.5 hour	Tung

Acceptance criteria:
- Given that the screens for each dining court are created successfully, the top recent comments for each dining court are displayed.
- Given that the comment section is successfully loaded, the user is then provided a button which they can tap to enter their comment and a button to submit the comment. Upon clicking on the post button, the comment is synced to the database and to the local datastore.
- Given that the comment section is successfully loaded, all comments posted by the current logged in user will have two buttons, an edit and a delete button. This gives the user the freedom to update or delete their comments.

User Story #11
As a web user, I would like to manage my account.

#	Description	Estimated Time	Owner
1	Create a simple page where the user can change information of their account	3 hours	Eric
2	Backend: Change username	3 hours	Arjun
3	Backend: Change email	4 hours	Tung
4	Backend: Change password	3.5 hours	Tung
5	Testing	3 hours	Arjun

Acceptance criteria:
- Given that create account and login have been implemented correctly, a logged in user will be provided with a settings icon. Clicking this icon will provide the user with the option "Manage Account" to manage account details.
- Given that the manage account option has been implemented correctly, clicking it will redirect them to the page that displays their personal information.
- Given that the manage account option redirects users to their personal page correctly, users will be able to view their information and edit their username, email, and change their password.

User Story #12
As an Android user, I would like to manage my account.

#	Description	Estimated Time	Owner
1	Create user profile activity and display data from server (or local datastore if available)	2 hours	Aashir
2	Create activity to edit profile Sync changes with server and local datastore	2 hours	Aashir
3	Testing	2 hours	Eric

Acceptance criteria:
- Given that user create account and user login have been implemented correctly, a logged in user will be provided with profile screen on which the user will have

the ability to edit their profile and manage their account: view their information and edit their username, email, and change their password.

User Story #13

As a web user, I would like to utilize the functionalities that navigation bar provides

#	Description	Estimated Time	Owner
1	Create a responsive navbar	3 hours	Kailu
2	Redirect to homepage	2 hours	Arjun
3	Redirect to manage my account page	3 hours	Kailu
4	Redirect to login screen	2 hours	Arjun
5	Testing	3 hours	Kailu

Acceptance criteria:
- Given that the home screen successfully loads, the user a displayed a navigation bar at the top of the screen, which contains 2 buttons depending on your login status.
- Given that all the buttons work correctly, the user will be redirected to the homepage on clicking the homepage button. They will be redirected to their account page when they click on the manage account button.
- Given that the user is redirected to other pages, the nav bar must still be displayed to them.

User Story #14

As an Android, I would like to navigate the app using material design standards.

#	Description	Estimated Time	Owner
1	Create a central navigation bar (bottom) and link activities	4 hour	Aashir
2	Setup Android's Back button to go to the main activity	1 hour	Aashir
3	Testing	2 hours	Eric

Acceptance criteria:
- Given that the app successfully loads data from the server, a bottom bar will be displayed for the user to navigate the different screens, each with its respective button.
- Given that the user taps on a navigation button, the new screen will be an Android Fragment that replaces the current screen with the new while maintaining the navigation bar.

Backlog

Remaining Backlog:
Note: the user stories that are bolded are the ones that are chosen for this sprint.

Functional:
As a user, I would like to:

1. Rate my dining experience in an effortless manner after a meal.

2. Receive audio feedback when the button is pressed to confirm that my rating has been recorded.

3. **To view the different dining courts.**

4. To view the different meal times of the dining courts.

5. To view the menus of the dining courts.

6. To have a simple guidance that shows up when I open the app for the first time.

7. To see top trending dining courts that day.

8. To view statistics in the form of graphs.

9. The graphs to displayed in an easily understandable manner.

10. The graphs to distinguish dining courts by color to make it more appealing.

11. To choose my favorite type of graph to view (bar or pie chart).

12. To view real time statistics of dining court ratings.

13. To view historic statistics of dining court ratings.

14. To view trends in dining court ratings over different periods of time.

15. To view the top 3 dining courts overall at the end of the month.

16. To know what the best dish from the previous week was.

17. An Android app version of PUrfect Dining.

18. To view the statistics through my phone in an easy-to-access manner.

19. To view other user's opinions on items.

20. **To be able to register for PUrfect Dining account.**

21. **To be able to login.**

22. **To be able to logout.**

23. **To manage my PUrfect Dining account.**

24. **To be able to recover my PUrfect Dining account's password.**

25. **To provide further comments on a website or app which help elaborate on my rating.**

26. To receive a visual confirmation of my comment submission.

27. To view comments that I have made in the past.

28. To like other users' comments.

29. To reply to other user's comments.

30. To be able to report inappropriate comments.

31. Obscene language to be censored in the comments.

32. The freedom to view the data available to me in different ways.

33. To customize which features I want to be notified about.

34. To set preferences for my favorite dining court(s) and receive a notification about the current ratings for that dining court (breakfast, lunch, and dinner).

35. To set favorite meal time and receive a notification that tells me the best dining court at that time.

36. To share statistics of dining courts with friends via social apps.

37. To share comments of other diners on social media platform.

38. To upvote/downvote individual food on the menu.

39. **To utilize the functionalities that navigation bar provides.**

As a dining court representative, I would like

40. To receive and view the feedback from diners.

41. To improve my service based on feedback of users.

42. To view which individual food the diners prefer the most and which one they would like improvements in.

Non-Functional:
As a developer, I would like
1. The application to be usable as a website.

2. The application to be usable on an Android phone.

3. The application to run smoothly.

4. The server to simultaneously support as many users as there are diners who eat at Purdue's dining courts.

5. The server to sustain real time communication between client and server.

6. The server to store data pertaining to the dining courts to a database.

7. The server to be able to handle any errors that might occur during requests and communications with the client and database.

8. To create an easy-on-the-eye and aesthetically pleasing user interface.

9. To provide users with the option of customizing the type of graphs in which data displayed to them.

10. To include a short delay after every rating is recorded to ensure that no individual enters multiple ratings.

11. To install kill switches in all hardware devices in the event that they are stolen or lost to prevent corrupted and manipulated data from being collected.

12. To ensure that all users who wish to comment to sign up for a password protected account using their Purdue email IDs.

13. To protect sensitive user account details such as email IDs and passwords that are stored in the database.

14. To have an Access Control List (ACL) for all users on the back end to restrict read and write permissions.

15. The hardware rating system to be effortless for users to rate with.

16. The application to be user friendly and easy to navigate.