QuikPik
Sprint #3 Presentation

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BRD

Link to Business Requirements Document

Note: User Surveys are included in this document for evaluation purposes.

BRD SWOT

SWOT	
Strengths	Weaknesses
- Familiarity with setting up a JDBC server - All of us are competent using Java - Effective communication allows us to function as a cohesive team	- Some of us are unfamiliar with Android Studio, the lDE we plan on creating the app with. - Limited time to implement all of the features we plan on adding.
Opportunities	Threats
- AI market is expanding - Surveys show that a majority of consumers use their phone to decide where to eat	- Yelp is a competitor, which is the go to app for deciding what to eat. - Similar AI-based apps are on the market already, such as Foursquare.

BRD Market Research

Geographical	Demographical	Behavioral	Buyer Power
Urban regions with a variety of food destinations	Potential users who have a mode of transportation that allows them to travel to new places around their area with ease.	Potential users who are active on their smartphones may continue to use our app. Outgoing users would be more likely to continue to use our app because they are willing to try new things.	Introducing our app into the market can increase buyer power causing customers to demand better quality features from Yelp. This will mark our product as a potential competitor to Yelp and it will be forced to create features similar to our app.
Size		**Growth Potential**	
The market for our product is fairly large. A 2017 poll conducted by Harvard Business Review stated that, 45% of American adults hate to cook and among them many eat out. All these people are potential users for our app.		Our app has the potential to grow bigger than Yelp because it offers Yelp's recommendations but also adds some of our own innovations. It includes an interactable chatbot that uses machine learning to suggest to the customer a restaurant understanding their preferred tastes. Our app appeals to all demographics so there will be a large user base.	

User Personas (3 Personas)

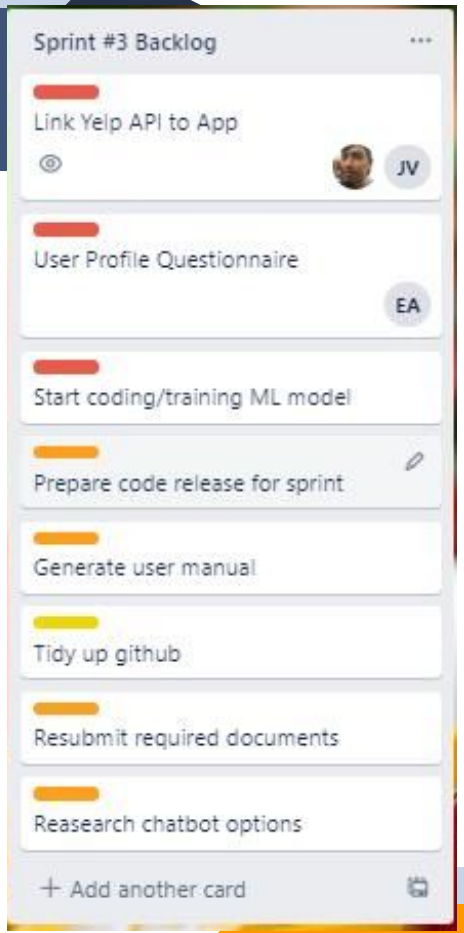
Stefani Zhou, 28
Palo Alto, CA
Research Engineer

David Stanley , 23
Santa Barbara, CA
College Student

Stephen Clark, 35
Chicago, Illinois
Tourist

Story Points Delivered to Users

- Story points delivered to users include:
  - User Profile Questionnaire (5pts)
  - Code release for sprint (3pts)
  - Generate User Manual (3pts)
- **Total: 12/28 pts** delivered to users.



PRD User Stories

#	User Story	Description	Priority	Notes
1	User login	A user wants to be able to log into the application (securely)	Must Have	Must be secure and information must be safely held somewhere.
2	Log out	A user wants to be able to log out of the application	Must Have	
3	Main menu	There must be a main menu to navigate the application.	Must Have	Should be intuitive.
4	User profile questionnaire	A user must be able to answer questions to set preferences for their profile.	Must Have	Asks main questions like top food types, price range, location. (maybe?)
5	Feedback for Quikpik	A user must be able to provide feedback for Quikpik developers to read.	Should Have	Linked to some resource we can read. Database?
6	User restaurant review	A user should be able to provide a review for a restaurant through Yelp.	Should Have	Linked to Yelp.

#	User Story	Description	Priority	Notes
7	Friends list	A user should be able to add friends and view a friends list.	Depends	Might be best to save this for later iterations of application.
8	Group chat	A user should be able to create and engage in group chats with friends on their friends list.	Depends	Might be best to save this for later iterations of application.
9	Recommendation AI	The application must be able to make recommendations based on a user's preferences as listed on their profile.	Must Have	Extremely important for basic functionality of application.

ADD - Firebase Server

- Real-time database: Data is stored as a JSON and synchronized for each client.
- Authentication: Easy to use SDKs which supports authentication using emails, passwords, or usernames.
- Storage: Utilize the cloud storage to store user-generated content.

Machine Learning

- With Machine Learning, we hope to develop a solid recommendation algorithm that takes into account user preferences, history, and many more factors
- Recommender Systems: Content-Based vs Collaborative Filtering
- Content-Based: attributes of items/users, history-driven
- Collaborative Filtering: similarities to other users, exploration of content

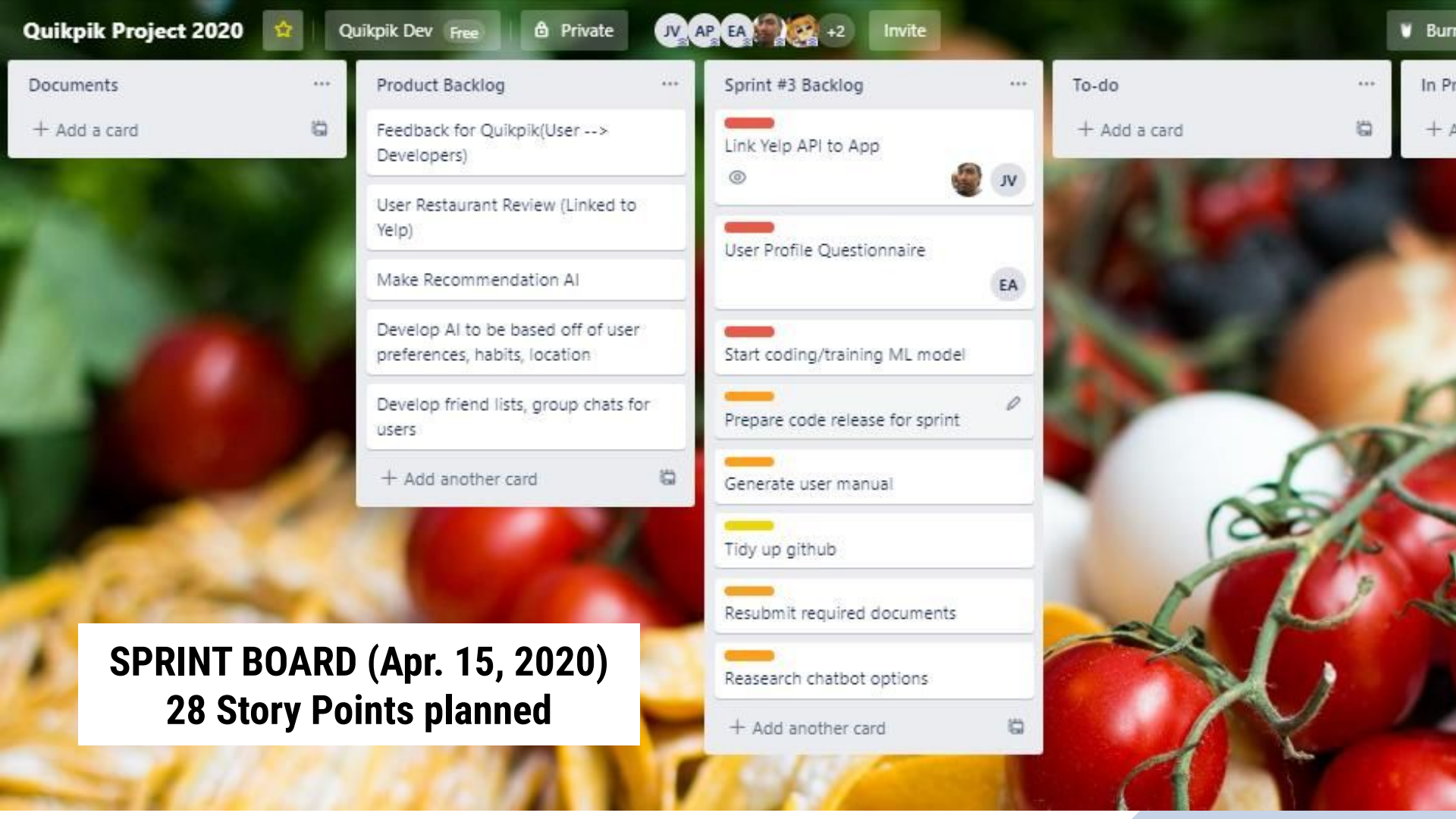
What does the team think of the code they released the last time?

- The code we released the last time was very basic and simple
- We looked to improve upon the foundation we built from the last sprint
- Improved upon app functionality, code documentation, and prepared many demos for presentation

Sprint #3 Code Release

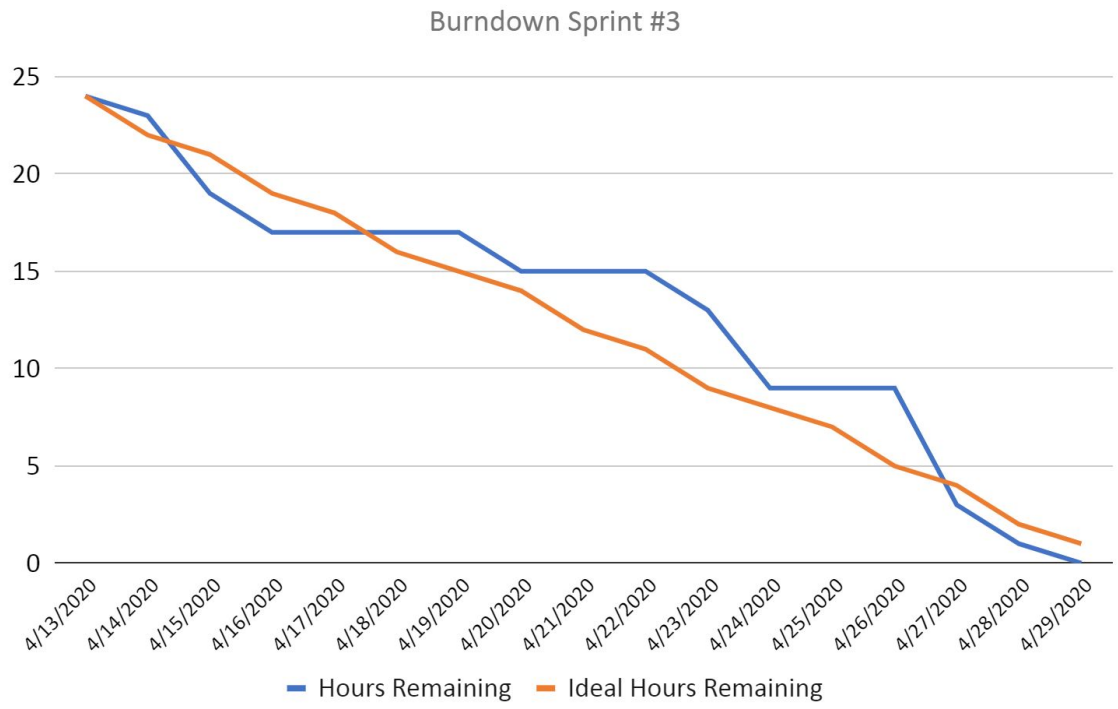
Updated Documentations?

- Since last Sprint
  - No updates to the BRD
  - No updates to the PRD
  - No updates to the ADD
  - Updated the Management Plan up to Sprint 3


Quikpik Project 2020
Quikpik Dev
Free
Private
JV
AP
EA
+2
Invite
Documents
Add a card
Product Backlog
Feedback for Quikpik(User --> Developers)
User Restaurant Review (Linked to Yelp)
Make Recommendation AI
Develop AI to be based off of user preferences, habits, location
Develop friend lists, group chats for users
Add another card
Sprint #3 Backlog
Link Yelp API to App
JV
User Profile Questionnaire
EA
Start coding/training ML model
Prepare code release for sprint
Generate user manual
Tidy up github
Resubmit required documents
Reasearch chatbot options
Add another card
To-do
Add a card
SPRINT BOARD (Apr. 15, 2020)
28 Story Points planned


Trello
Hey Juan Villa! We need you to confirm your email address. Confirm email · Remind me later
Quikpik Dev Free
Private
JV AP EA +2
Invite
Burndown Chart
Butler (8 T
Product Backlog
Feedback for Quikpik(User --> Developers)
User Restaurant Review (Linked to Yelp)
Make Recommendation AI
Develop AI to be based off of user preferences, habits, location
Develop friend lists, group chats for users
Add another card
Sprint #3 Backlog
Research chatbot options
Add another card
To-do
Add a card
In Progress
Add a card
Testing
Add a card
Completed
Resubmit required documents
Generate user manual
1
JV
Navigation Drawer/Tidy up layout
R
Link Yelp API to Python
2
JV
Tidy up github
1
AP EA JV R
User Profile Questionnaire
EA
Prepare code release for sprint
1
AP EA JV R
Start coding/training ML model
AP
Add another card
SPRINT BOARD (Apr. 29, 2020)
25 Story Points completed

Burndown Chart



Sprint Retrospective

Did the team meet its Sprint Goal?

- Start testing out the Yelp API,
- Added more functionality to App,
- Started with some Machine Learning,
- Made a User Manual
- Updated documentation

Sprint Review - Held on April 29, 2020

Code Demo

Link to User Manual

User Manual

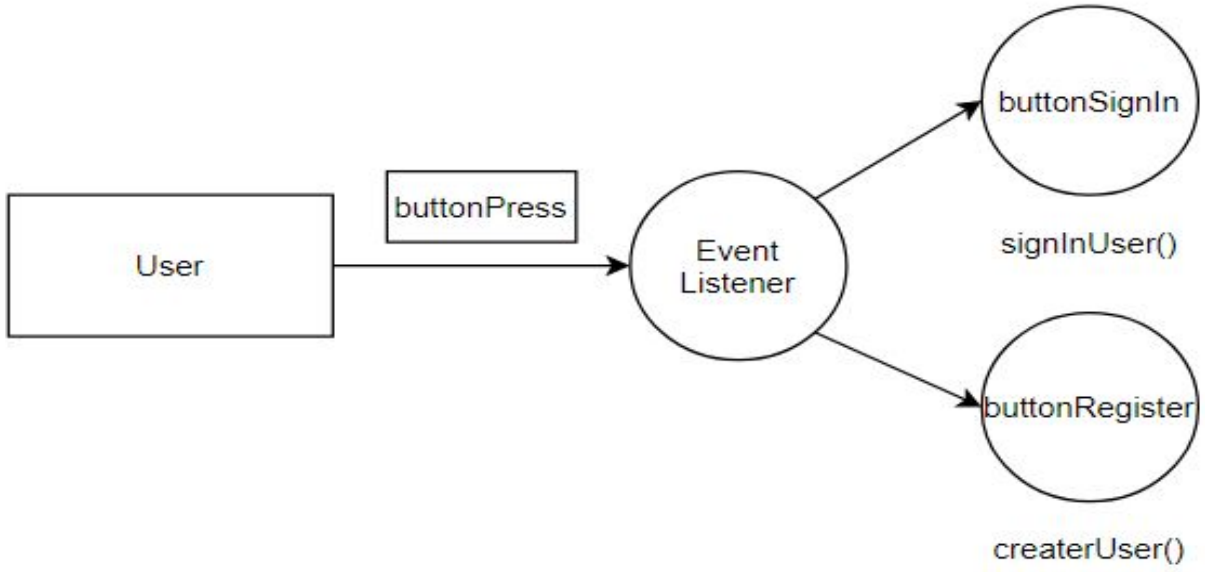
What we will go over

- Machine Learning Demo
- Yelp API sample code in Python
- Quikpik APK Release Demo

What is in Our Code?

- **Our code consists of:**
  1. user registration
  2. login/logout options
  3. storing user food preferences in the database**(NEW!)**
  4. authenticating user for login
  5. tracking user's current location.
  6. Navigation Bar**(NEW!)**
  7. ML Model **(NEW!)**
  8. YELP API Python Query **(NEW!)**
- We used Java as the coding language for the main server
- We employ a NoSQL database (Firebase)
- The middleware we use to connect our database to the server:
  1. Google Cloud

Command Pattern (Behavioral Design Pattern)



MVC Architecture