DELIVERABLE 3
PART 1

enterprise

Team_01(GitHub)
Anson Feng
Jiawei Qiao
Vanessa Pierre
Yolanda Su

Project Setup

• **What tools will you use for your task board?**
　　Trello

• **What tools will you use for your burn-down chart**
　　Google Sheets

 • **Who will maintain the burn-down chart? How?**
　　The scrum master (Yolanda) will maintain the chart. The scrum master will update
　　the burndown chart data table at the end of every working day with the most current
　　number of story points left.

• **What is every team member's role?**
　　Yolanda: Scrum master, Front end
　　Vanessa: Front end
　　Anson: Back-end
　　Jiawei: Back-end

　　Adjustments for the frontend and backend rolls will be made every sprint based on
　　the stories worked on in that sprint and the decision of the team's pairs.

　　The team will be split into pairs of 2, each pair will have 1 person mainly responsible
　　for the frontend and 1 person mainly responsible for the backend (the pair will decide
　　among themselves who fills which role)

　　Pairs will work on the same stories (e.g. one person in the pair works on the front end
　　of a story, the other works on the back end of the same story)

　　If there are fewer backend points on a team than frontend points, the backend
　　developer will help with frontend points after finishing backend work, and vice versa if
　　there are less frontend than backend points

　　Pairs will review each other's code

　　Pairing cycle (cycle repeats every 3 sprints):
　　Yolanda & Anson, Vanessa & Jiawei
　　Yolanda & Jiawei, Anson & Vanessa
　　Yolanda & Vanessa, Anson & Jiawei

• **What tools, if any, will you use for communication?**
　　Slack, Zoom

• **When do you plan to meet in person?**
　　Weekly team meetings Wednesdays 6-7pm

Meetings with TA Thursdays 6-7pm
Additional meeting times when necessary by the team's discretion

• **How will you use your repository on GitHub?**
Features will be on individual branches
Branches will be pushed after functionality is complete, and after every bug fix on that feature
Branches will be merged after they have been fully tested and approved

• **Which machines will be used for development by each team member?**
Yolanda: Windows home computer
Vanessa: Macbook
Anson: Windows home computer
Jiawei: Macbook/Windows home computer

• **What is your DoD (definition of done)?**
Fully functional and fully tested and has gained the approval of the client

Project Backlog

Type	Priority	Story	Backend Points	Frontend Points	Total Story Points
Story	Critical	As David (restaurant owner), I want to be able to register my account as a restaurant owner	6.5	4	11.5
Story	Critical	As Kevin (customer), I want to be able to register my account as a customer	0	0	0
Story	Critical	As Kevin (customer), I want a search bar so that I can easily find and check a restaurant's coupons and achievements	3	2.5	5.5
Story	High	As David (restaurant owner), I want to create a coupon with my selected requirements	4	3	7
Story	High	As David (restaurant owner), I want to be able to see all my restaurant's current coupons	1	6	7
Story	High	As David (restaurant owner), I want to be able to delete an existing coupon	1	1	2
Story	High	As David (restaurant owner), I want to be able to add new achievements to my restaurant and set their exp and/or point values	4	3	7
Story	High	As David (restaurant owner), I want a default template for customer achievements, so that I can set up achievements more easily	1	4	5
Story	High	As David (restaurant owner), I want to be able to see all my restaurant's current achievements	1	4	5
Story	High	As David (restaurant owner), I want to be able to delete achievements from my restaurant	1	1	2
Story	High	As David (restaurant owner), I want an interface for editing restaurant settings where I can manage all aspects of my restaurant on the application easily	0	7	7

Story	High	As David (restaurant owner), I want customers' progress towards achievements and coupons to update only after they buy an item.	7	0	7
Story	High	As Kevin (customer), I want to be able to link my account to Shopify or Square so that after purchases my achievements and points will automatically updated	7	2	9
Story	High	As Kevin (customer) I want to be able to redeem coupons at the related restaurant	4	2	6
Story	High	As David (restaurant owner) I want to be able to scan customer coupon QR codes and mark the coupon used	3	7	10
Story	High	As Kevin (customer) I want to be able to see what achievements are available	2	2	4
Story	High	As Kevin (customer), I want to be able to gain experience and levels as I eat at restaurants, so that I can feel a sense of progression as I'm using the application	3	0	3
Story	High	As Kevin (customer) I want to be able to see available coupons and purchase coupons by redeeming my points	2.5	4	6.5
Story	High	As Kevin (customer), I want an interface for each restaurant that tracks all my achievement progress, levels, and points	2	7	9
Story	Medium	As Kevin (customer), I want a profile page so that I can easily see which restaurants I've visited before	3	2	5
Story	Medium	As Kevin (customer) I want to be able to see how many points I gain after completing an achievement	0.5	1	1.5
Story	Medium	As Kevin (customer), I want to see user leaderboards on the app so that I can compare my level with others and compete to see who has the highest level at a restaurant	2	4	6
Story	Medium	As David (restaurant owner), I want a graphical interface allowing me to see how many coupons a customer currently have that can be redeemed	1	4	5

Story	Medium	As David (restaurant owner), I want the option to give customers exp or points based on how much they spent at my restaurant, so that customers will feel rewarded when they dine at my restaurant	3	1	4
Story	Low	As David (restaurant owner), I want to be able to use existing coupons as a template for new coupons	1	2	3
Story	Low	As David (restaurant owner), I want to be able to modify achievements from my restaurant	1	1	2
Epic	Low	As David (restaurant owner), I want a menu system allowing me to upload, preview and modify my menu onto the application	6	9	15
Epic	Low	As David (restaurant owner) I want to be able to configure the benefits customers can get from their user level at my restaurant	3	5	8
Epic	Low	As Kevin (customer), I want to have a customizable character that can represent my progress, so that I will be more engaged in the app and have more fun	9	10	19 (+Assets: ∞)

Release Plan

Weekly sprints, ending on sunday 6pm (Sprint length: one week(6 days))

      Pairs will pull ~15 points worth of stories every sprint

Reasoning:

- more frequent feedback (We can receive feedback frequently and adjust our work)
- check in velocity more frequency
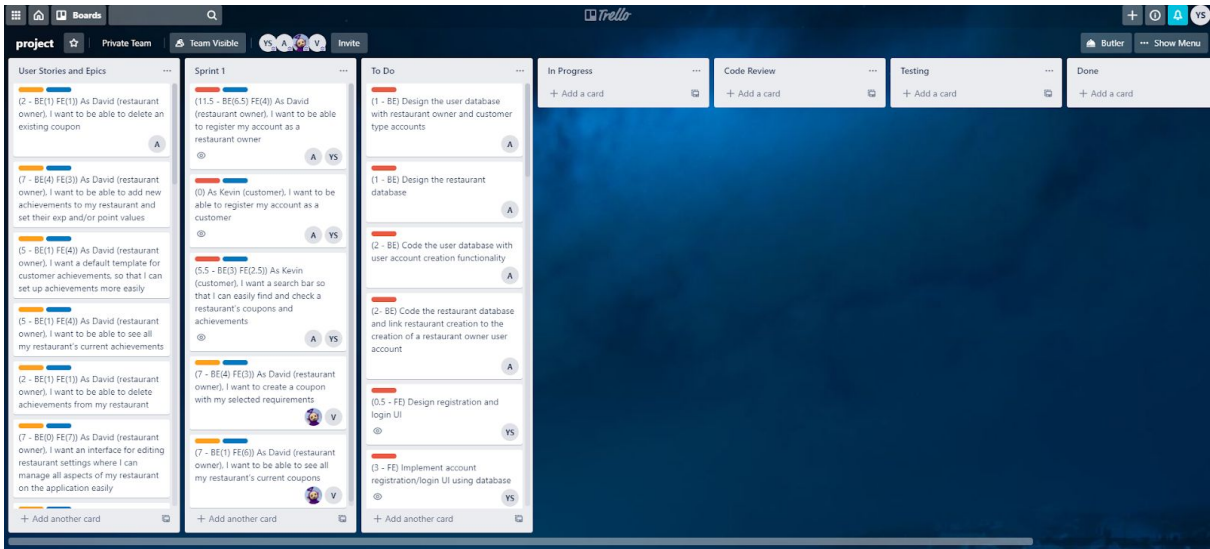
1 story point = 1 working hour

Sprint Plan

Priority	Story	Backend Points	Frontend Points	Tasks	Backend Points	Frontend Points
Critical	As David (restaurant owner), I want to be able to register my account as a restaurant owner	6.5	4	Design the user database with restaurant owner and customer type accounts	1	0
				Design the restaurant database	1	0
				Code the user database with user account creation functionality	2	0
				Code the restaurant database and link restaurant creation to the creation of a restaurant owner user account	2	0
				Design registration and login UI	0	0.5
				Implement UI using database	0	3
				Automate tests	0.5	0.5
Critical	As Kevin (customer), I want to be able to register my account as a customer	0	0	see tasks above		
Critical	As Kevin (customer), I want a search bar so that I can easily find and check a restaurant's coupons and achievements	3	2.5	Design search algorithm for restaurants	1	0
				Code search function with respect to restaurant database	1.5	0
				Design search bar UI	0	0.25
				Implement UI using backend functions	0	1.75

Priority	User Story			Task		
				Automate tests	0.5	0.5
High	As David (restaurant owner), I want to create a coupon with my selected requirements	4	3	Design coupon database for restaurant-specific coupons	2	0
				Code the user database with user coupon creation functionality	1.5	0
				Design coupon creation UI	0	0.5
				Implement UI using restaurant-coupon database	0	2
				Automate tests	0.5	0.5
High	As David (restaurant owner), I want to be able to see all my restaurant's current coupons	1	6	Code database query for fetching coupons specific to a given restaurant owner account	0.8	0
				Design UI for displaying list of coupons	0	1
				Implement UI using backend functions	0	4
				Automate tests	0.2	1

Team Task Assignments

Name	Tasks	Type	Start Time
Anson Feng	Tasks that include implementing the backend of user registration (both customer and restaurant owner) and a search bar for customers	Backend	Tuesday of this sprint At 10 am
Yolanda Su	Tasks that include implementing the frontend of user registration (both customer and restaurant owner) and a search bar for customers	Frontend	Tuesday of this sprint At 12 pm
Jiawei Qiao	Tasks that include implementing the backend of coupon code creation and viewing available coupons	Backend	Wednesday of this sprint At 10 am
Vanessa Pierre	Tasks that include implementing the frontend of coupon code creation and viewing available coupons	Frontend	Wednesday of this sprint At 12 pm

Task Board

Burndown Chart

Time (Days)	Story Points Left (Planned)	Story Points Left (Actual)
0	182	182
1	179	
2	175	
3	172	
4	169	
5	165	
6	162	
7	158	
8	155	
9	152	
10	148	
11	145	
12	142	
13	138	
14	135	
15	131	
16	128	
17	125	
18	121	
19	118	
20	115	
21	111	
22	108	
23	104	
24	101	
25	98	