DELIVERABLE 3

PART 1

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 front-end and back-end developer roles 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 front-end and 1 person mainly responsible for the back-end, and 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). Pairs are also responsible for reviewing each other's code.

  If there are fewer back-end points on a team than front-end points, the back-end developer will help with frontend points after finishing backend work, and vice versa if there are less frontend than backend points. If a card is still incomplete by the end of the sprint, the original assignees to those cards will first complete the leftover work before moving on working with their new partner for the next sprint.

  <u>Team member pairing cycle (cycle repeating every 3 sprints):</u>
  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 take place Wednesdays 6-7pm
  Meetings with TA take place Thursdays 6-7pm
  Additional meeting times are added when necessary based on team discussion

- **How will you use your repository on GitHub?**

  Features will be developed on individual branches, and branches will be pushed to git after functionality is complete. Bug fix commits on a feature will be pushed to that feature's branch if the branch has not yet been merged into master, and will be pushed into a new bug fix branch if the original feature branch is already merged. Branches will be merged to master 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)?**

  DoD: Fully functional and fully tested and has gained the approval of the client

Project Backlog

1 point = 1 working hour

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

Our team has decided on weekly sprints, with sprints ending on Sundays at 6pm. Team pairs will pull ~15 points worth of stories from the top of the product backlog every sprint. We chose to have weekly sprints so that we can receive feedback on our feature development and direction more frequently, in terms of both internal feedback between team members and external feedback from the TA and our client. The shorter sprint length also allows us to check our velocity more frequently via our end of sprint meetings, so we have a better idea of how on track we are at any point in time. The frequent sprint summary meetings also allow us to uncover any possible issues in developing planned features earlier on, so that we can review and adjust our product backlog in our learning process as early as needed.

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

				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

Acceptance Criteria

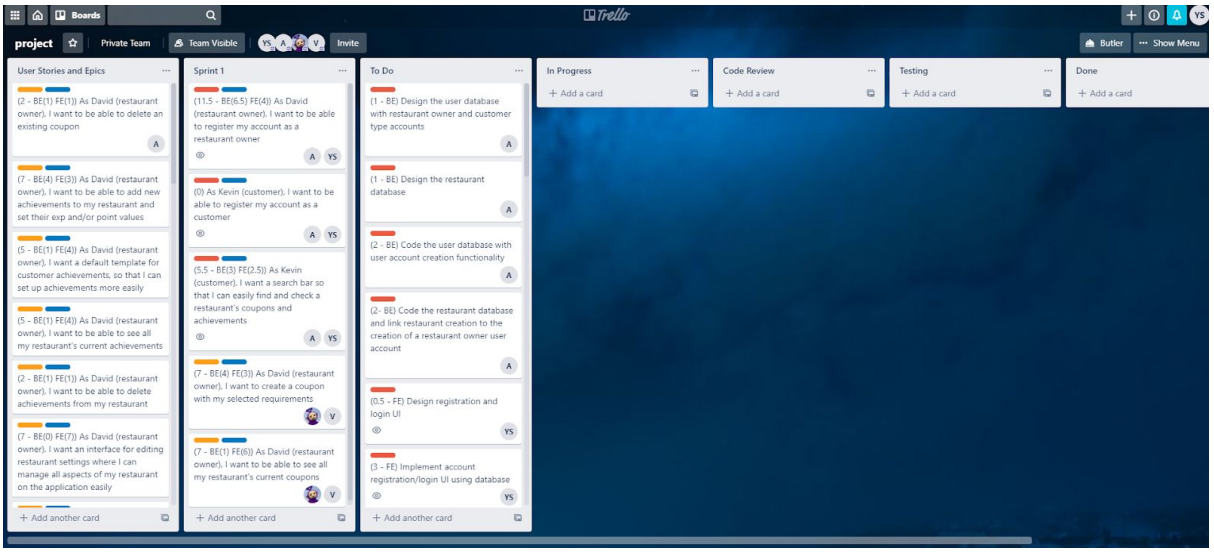
Tasks must be completed and the completed work must be reviewed and approved by at least 1 other team member to be accepted

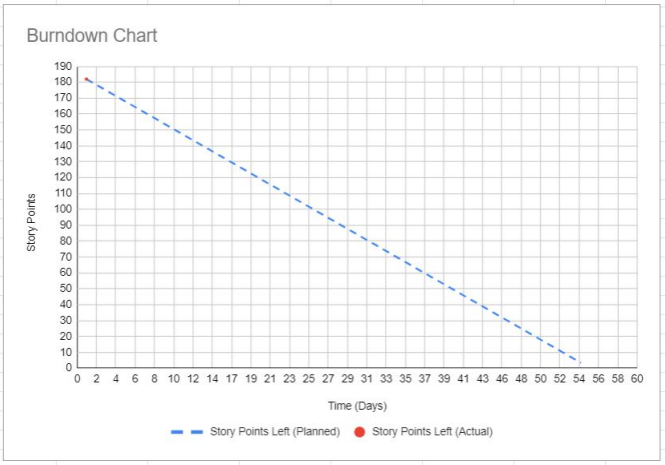
Stories must be fully implemented, tested, and approved by all team members and the client to be accepted.

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