

Project Plan: Eden Fresh

Provided by Team Web Crawlers

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1.Introduction

The project plan is a work breakdown structure with schedules related to Eden Fresh. The project plan is planning the process of defining project objectives, scope, goals, timing, milestones, deliverables, assigning tasks and resources for each step to get the work done for building Eden Fresh. For each task, details of the process will be provided, including schedule-timeline, specific dates, or explicit dates. A Gantt chart will be used to make the project plan clear and easy for all project holders to follow. It is a bar chart that provides a visual view of our project's tasks over time.

2. Scope

The project plan will be focusing on the project structure which will give team members opportunities to work on the project as the project plan has scheduled the timeline from start to end.

3.Objectives

To provide an online platform for urban growers and buyers to connect with each other, which allows growers to sell their products and receive profit, while giving convenience for buyers to purchase homegrown ingredients around their neighborhood.

4. Tools

- Front-end:
 - HTML, CSS, javascript
- Back-end:
 - C#
- Database:
 - SQL/SQL Server
- Version Control Software:
 - GitHub
- Map feature:
 - Google's Maps API
- Web Hosting:
 - Microsoft Azure Suite

5. Basic Requirements per Feature

- **Set-up shop:**
 - Sellers are able to post their current products for sale and their preferred meetup location on their profiles

- Sellers are able to set the necessary information for each product, such as the current number of stock, price per pound or piece, images of the product, and a description of the product
- **Reservation and Transaction:**
 - Buyers are able to reserve their desired product from a seller by selecting an amount from the current unreserved stock and sending a request to the seller.
 - Buyers can also cancel a reservation at any time.
 - Buyers can send a request to the seller to change the reserved amount to another non-zero amount within the unreserved stock count.
- **Request Fulfillment:**
 - Buyers are able to post a request for a specific amount of produce that is visible to all sellers.
 - Sellers can leave a post on the buyer's request, with a price offer to fulfill their request.
- **Miles Radius Search:**
 - Buyers will be able to search for ingredient listings within a specified distance of their choosing from a location they have set.
- **Cuisine filter:**
 - Users will be able to filter their search results using the predefined list of cuisines and further use on radius search for products.
- **Real-Time Notifications:**
 - Users can opt in or out to receive notifications of the updates of the product reservation or requests, direct messages, or any updates from the people they followed.
 - Users can delete one or multiple notifications or set an auto clean-up every 6 months.
- **Transactions View:**
 - Users will be able to see a list of all accepted reservations and request fulfillment bids involving them, sorted chronologically, latest-first.
 - Cancelled and completed transactions are also visible but can be removed by the user.
- **Meeting Point Directions:**
 - Once a buyer's reservation or request fulfillment bid is ready, they will have access to a map showing street directions from a location of their choosing to the seller's meetup location.
 - Once the respective transaction either expires or is marked complete by the seller, the buyer will no longer have access to the seller's location or directions there.
- **Following Sellers:**
 - Users will be able to follow sellers, which adds them to a list of sellers they follow and lets them receive real-time notifications if the seller has restocked a product or posted a new product on their profile
 - Users will be able to view their following list on their profile.
- **Rating and Review:**

- Buyers and sellers will be able to rate and review each other once a transaction between them has been completed or cancelled.
- Buyers and sellers are able to view all ratings and reviews that others have posted
- **User Block Feature:**
 - All users can opt to block other users
 - Users can view the list of users that they have blocked and they are able to unblock them
- **Chat Feature:**
 - All users can send a request to another user to open a chat between each other to ask questions that they may have regarding their stock and arrange a place to meet up.

6. Risks and Risk Mitigation

1. Miss deadline: Work items or tasks that have been brought into the Sprint and have not been completed by the internal/external deadline.

- May delay the future Sprints.
- All work might be delayed, or even miss external deadlines at the end.

Risk level: High

Risk mitigation:

- Follow the Sprint planning of each task and always check the work.
- If a team member is blocked, ask for help or discuss with the team.

2. Insufficient skills or knowledge: Some tasks might require new skills or technologies to finish the work. Team members in charge might need to prepare for it.

- The project might be delayed due to members' lack of skills or knowledge.

Risk level: Medium

Risk mitigation:

- Plan to learn the skills or be skillful of the new technology before the planned sprint date starts, as it takes time for members to get better in the new tools or skills.

3. Inefficient communication process: Team members have poor communication with other members or clients.

- Members who lose direction or don't know the project status may lead to misunderstanding and project delay.
- Lack of communication with clients may cause the project design doesn't meet the client's requirements.

Risk level: High

Risk mitigation:

- Members need to know the project's status and be involved in it by communicating with other team members and clients.

- Discuss with other members when it needs more information or guidance on the project.
- If there are any changes to the project, members need to inform and discuss with the whole team.
- Actively communicate with clients to get their expected requirements.

4. Scope change: Changes are made to the project scope without any control procedure like change requests or authorization.

- It affects the project schedule, costs, resource allocation, or delays the Sprint planning.

Risk level: Medium

Risk mitigation:

- Actively engage with clients to get their expected requirements to make sure all features are included during planning status.
- Try to follow the initial plan during project execution status.

7. Role and Responsibilities

Alexander Dung(Scrum master):

- Ensure the team follows the processes that are agreed upon by the team.
- Ensuring all the necessary tech tools during web development.

Devarsh Patel(Member):

- Execute all assigned tasks
- Work in a team and follow all the sprint planning.

Justin Calma (Leader):

- Leading team members and monitoring progress towards goals.
- Making sure all the tasks are done for each Feature.

Kayla Chu(Member):

- Execute all assigned tasks
- Work in a team and follow all the sprint planning.

Sze Man Tang(Member):

- Execute all assigned tasks
- Work in a team and follow all the sprint planning.

8. Resources

Our team is planning to use free tools for developing the web application so it will be zero cost at this moment. For human resources, we're planning to break down each feature into smaller tasks and assign them to each member. Each member is responsible for the tasks that they were assigned. Details will be on the future sprint plan.

9. Internal and External Deadlines

#	Functions	Features	Sprint #	Start date	End Date	Team Capacity
1	Product Post	Set-up shop	1	1/24/2022	1/29/2022	100 H
2	Product Post	Reservation and transaction	2	1/31/2022	2/5/2022	100 H
3	Product Post	Request fulfillment	3	2/7/2022	2/12/2022	100 H
4	Map	Miles radius search	4	2/14/2022	2/19/2022	100 H
5	Search engine	Cuisine filter	5	2/21/2022	2/26/2022	100 H
6	Message	Real-Time Notifications	6	2/28/2022	3/5/2022	100 H
7	Transaction	Transaction view	7	3/7/2022	3/12/2022	100 H
8	Map	Meeting point directions	8	3/14/2022	3/19/2022	100 H
9	Profile	Following Sellers	9	3/21/2022	3/26/2022	100 H
10	Transaction	Rating and review	10	4/4/2022	4/9/2022	100 H
11	Settings	User block feature	11	4/11/2022	4/16/2022	100 H
12	Message	Chat feature	12	4/18/2022	4/23/2022	100 H

10. Sprint Planning Dates Schedule

Sprint	Sprint Meeting Description	Sprint Meeting Date	Meeting Hours
0	General meeting	01/19/2022	1
1	Set Up Shop	01/23/2022	1
2	Reservation and Transaction	01/30/2022	1
3	Request Fulfilment	02/6/2022	1
3	Miles Radius Search	02/13/2022	1

4	Transaction (Rating and view)	02/20/2022	1
5	Cuisine Filter	02/27/2022	1
6	Real-Time Notifications	03/06/2022	1
7	Transaction View	03/13/2022	1
8	Meeting Point Directions	03/20/2022	1
9	Following Sellers(Profile)	03/27/2022 or 04/03/2022	1
10	Rating and Review	04/10/2022	1
11	User Block Feature	04/17/2022	1
12	Chat Feature	04/24/2022	1
13	Web Application Hosting (presentation)	05/01/2022	1
14	Last Sprint Meeting	05/08/2022	1

EDEN FRESH: GANTT CHART

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