# **Project Name: Bee Haven**

#### 1.0 Objective

Our mission is to craft an inviting and user-friendly website that serves as a hub for promoting daily sustainable habits while fostering a deeper connection with the vital bee ecosystem. By seamlessly blending education and engagement, we aim to raise awareness about the essential role of bees while empowering users to adopt eco-conscious practices. Through captivating content and interactive features, our website will inspire individuals to cultivate bee-friendly environments by learning about suitable plants and nurturing sustainable habits in their daily lives.

### 2.0 Stakeholders

- 1. Students
- 2. Game Keepers
- 3. Developers

#### 3.0 Functional Requirements

- 1. User Registration and Authentication
  - a. User must be able to create account and log in to the system
  - b. User authentication should be secure
- 2. Habit Tracker
  - a. Users should be able to log daily habits once a day. Score would be acquired to the users based on the number of habits and added to the total score
- 3. Map
  - a. Users should be able to go to the desired location to collect seed packs. Score would be awarded to the user based on the rareness of the seeds.
- 4. Virtual Garden
  - a. User should be able to plant flowers that has been acquired
  - b. User should be able to increase the bee's happiness by completing daily habit tracker
- 5. Leaderboard
  - a. User should be able to view the leaderboard of all users, and would be ranked by their scores
- 6. Administrator
  - a. Users with "superuser" permission would be able to grant special seeds to the users after completion of the daily habit tracker

# **4.0 Non-Functional Requirements**

- 1. Security
  - a. Implement secure login and authentication for user's information
  - b. Protect against common web application vulnerabilities
- 2. Usability
  - a. The website should have an intuitive and responsive design for both desktop and mobile app users

## **5.0 Assumptions and Constraints**

- 1. Legal Compliance
  - a. Ensure compliance with data protection regulations (GDPR)
- 2. Usability
  - a. User would be able to use the website regardless of their locations

## **6.0 Player Actions**

- 1. Log in and complete a daily habit tracker by clicking on the checkbox. Obtain seed packs and scores
- 2. Plant seeds at the virtual garden by dragging the seed from the seed inventory and dragging into planting spots
- 3. Click on the flowers that has been planted to obtain information on the flowers
- 4. Pet virtual bee to improve the "happiness bar"
- 5. Ranking in leaderboard would be updated according to player's scores