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**Flora Nest Project Report**

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# Project Initiation

## 1. Introduction

### 1.1 Project Overview:

**Flora Nest** is an Android app designed to bring plant enthusiasts together, allowing them to exchange information, tips, and experiences about plant care. It provides comprehensive information about different plant types, including cultivation methods, care tips, and benefits, along with an interactive forum and Google Maps integration.

### 1.2 Objectives:

* + - To offer detailed information about plant types.
    - To facilitate community interaction through an integrated forum.
    - To help users locate nearby nurseries using geolocation features.

## 2. Scope

### 2.1. The Current Situation

* **Overview**: Imagine you’re someone who loves plants—whether you’re a beginner or a seasoned gardener. You want to find information about different plants, how to care for them, and maybe discover some new varieties. You’d also love a place to connect with others who share your passion, exchanging tips and experiences. However, finding all this in one place isn’t easy. Right now, plant lovers have to jump between different websites, social media groups, and forums. It’s frustrating when you want a simple, reliable resource that brings everything together.
* **Problem**: What’s missing is a single, go-to app that not only provides detailed plant information but also fosters a community where plant lovers can interact, share experiences, and get practical advice. Additionally, users want the convenience of locating nearby nurseries to buy plants, but this feature is often overlooked in existing platforms. **FloraNest** aims to fill this gap by creating an all-in-one solution.

### 2.2. The Context of the Work

* **Target Audience**: Think of **FloraNest** as the perfect app for anyone passionate about plants, from beginners to experienced gardeners, offering guidance, tips, and new plant ideas.
* **Business Environment**: As plant care and lifestyle apps grow in popularity, FloraNest stands out by combining plant information, community interaction, and geolocation, making it a unique platform tailored for plant enthusiasts.
* **Technological Environment**: FloraNest is an Android app using Firebase for secure user management and data storage, with Google Maps for geolocation. Built with Android Studio, it offers a seamless user experience.

### 2.3. Work Partitioning

* **Feature-Based Partitioning**: The work is broken down into clear, user-focused features:
  1. **User Registration & Login**:
     + Creating an account and login is simple and secure. Users can quickly register, and log in within the app.
  2. **Plant Information Display**:
     + This feature provides users with all the details they need about different plants, including pictures, care tips, and benefits. It’s designed to be informative and easy to navigate.
  3. **Interactive Forum**:
     + The forum is the heart of the community, allowing users to create posts, share their experiences, comment, and like others’ posts. It’s where plant lovers come to connect, ask questions, and offer advice.
  4. **Google Maps Integration**:
     + With Google Maps, users can find nearby nurseries and plant centers. It’s as simple as tapping a button to see where to buy plants locally.
* **Development Sprints**: The app is built step-by-step through 4 sprints:
  1. **Sprint 1**: User registration and login.
  2. **Sprint 2**: Plant information display.
  3. **Sprint 3**: Interactive forum.
  4. **Sprint 4**: Google Maps integration.
* **Primary Actors**:
  + **End Users**: These are the plant lovers who use the app to find information, interact in the forum, and locate nurseries.
* **Scenario**:
  + A user opens **FloraNest**, logs in, and browses through plant categories. They find a plant that catches their interest, saves it as a favorite, and then head to the forum to read discussions about it. Inspired by other users' stories, they decide to share their own plant care tips. Finally, they use Google Maps integration to locate a nearby nursery where they plan to purchase the plant.

## 3. Development Environment

### 3.1 Tools:

* Android Studio for Android app development.
* GitHub for version control.
* Firebase for backend services.

### 3.2 Languages and Frameworks:

* Java/Kotlin for coding.
* XML for UI design.
* Google Maps API for geolocation.
* **Jira**: For task management, sprint planning, and tracking project progress using Agile methodology.

## 4. Story Backlog

|  |  |  |  |
| --- | --- | --- | --- |
| Story Name | User Story | Acceptance Criteria | Sprint |
| Registration | As a user, I want to create an account by entering my name, email, password, and city, so that I can access the app. | Users can enter personal info to register; email verification is required; data is securely stored in Firebase. | Sprint 1 |
| Login | As a user, I want to log in using my registered email and password, so that I can access my account. | Users can enter email and password to log in; system verifies credentials; password reset is available. | Sprint 1 |
| Plant Information Display | As a user, I want to browse through different plant types, so that I can learn about their cultivation methods, care tips, and benefits. | Plant info includes images, care tips, descriptions, and benefits; users can view details; organized by categories. | Sprint 2 |
| Forum Posts | As a user, I want to create posts in the forum, so that I can share my plant experiences and knowledge with others. | Users can create and publish posts; can like, comment, and engage with posts; posts can include text and images. | Sprint 3 |
| Google Maps Integration | As a user, I want to find nearby nurseries and plant centers using Google Maps integrated within the app, so that I can locate resources easily. | Geolocation shows nurseries near the user; users can view details on map; directions are available. | Sprint 4 |

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