Document Title: Deliverable 6

Team Name: Smart Sprout

Project Name: Smart Home-Garden System

Group Number: Group 9

Team Member & Student ID:

- Aditi Patel n01525570
- Birava Prajapati n01579924
- Darshankumar Prajapati n01574247
- Zeel Patel n01526282

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SMART SPROUT

Brief description of the project

Our project, **Smart Sprout**, is a smart home gardening app designed to simplify plant care by integrating sensor data. It helps users monitor their plants' needs, such as moisture and temperature. The app automates plant care by offering notifications, weather updates, and a user-friendly interface for managing and tracking plant health, making it easy for users to care for their plants effortlessly.

Name	Student Id	Github Id	Signature	Efforts
Aditi Patel	n01525570	AditiPatel5570		100%
Birava Prajapati	n01579924	BiravaPrajapati9924		100%
Darshankumar Prajapati	n01574247	DarshanPrajapati4247		100%
Zeel Patel	n01526282	ZeelPatel6282		100%

- **GitHub Repo Link**: https://github.com/DarshanPrajapati4247/SmartHomeGardenSys

Work Completed by each member

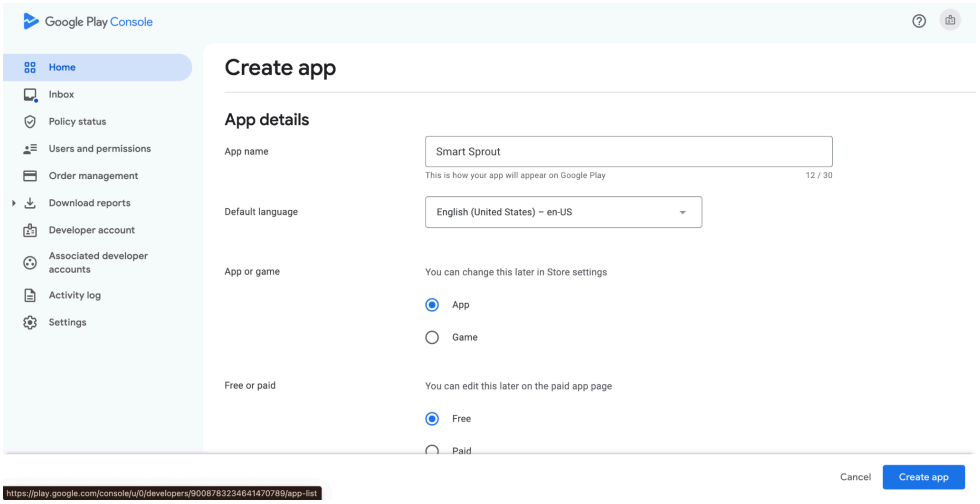
Birava Prajapati: I've made several updates to the Smart Sprout app to enhance functionality and maintainability. I updated the application label and notification icon to improve the app's branding and visual consistency. In the DiagnoseFragment, I introduced a "Coming Soon" message to provide users with a clear indication of upcoming features. To streamline the codebase, I removed unused import statements, ensuring cleaner and more efficient code. Additionally, I implemented functionality to delete photos from Firestore and the Room database on a background thread, optimizing performance and ensuring smooth operations. These changes collectively enhance the app's usability, responsiveness, and readiness for future updates.

Darshan Prajapati: I updated the alert icon for better visual clarity and made improvements to the plant API, ensuring more reliable and accurate data integration. On the log and registration screens, I added network connectivity checking to enhance user feedback and prevent errors during offline conditions. To further support offline users, I introduced an OfflineActivity with retry and settings functionality, seamlessly integrated with NetworkViewModel to provide real-time network status handling. Additionally, I updated the app's fonts to Poppins for a more modern and cohesive design. These enhancements collectively improve both the functionality and aesthetic appeal of the app.

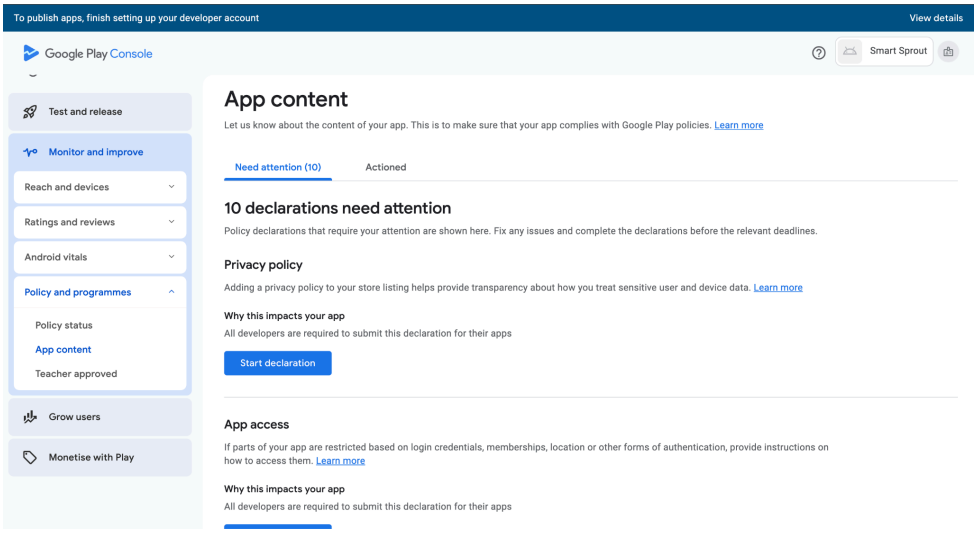
Aditi Patel: I've implemented a notification feature that triggers whenever a user logs into the app. The notifications now appear seamlessly in the Notification Activity. Previously, there were some issues with this functionality, but they have been resolved. Additionally, I've ensured that the image and back button in the Notification Activity are working perfectly, providing a smoother user experience.

Zeel Patel: During this sprint, my focus has been on ensuring the quality and usability of the application. I dedicated time to thoroughly testing the app to identify and resolve any bugs or issues, ensuring a smooth user experience. Additionally, I worked on completing the remaining user interface (UI) elements, ensuring they aligned with the overall design and functionality requirements. To further enhance the development process, I also took the initiative to coordinate with testers, onboarding them to evaluate the app comprehensively. This combination of tasks has contributed to both the refinement and validation of the application.

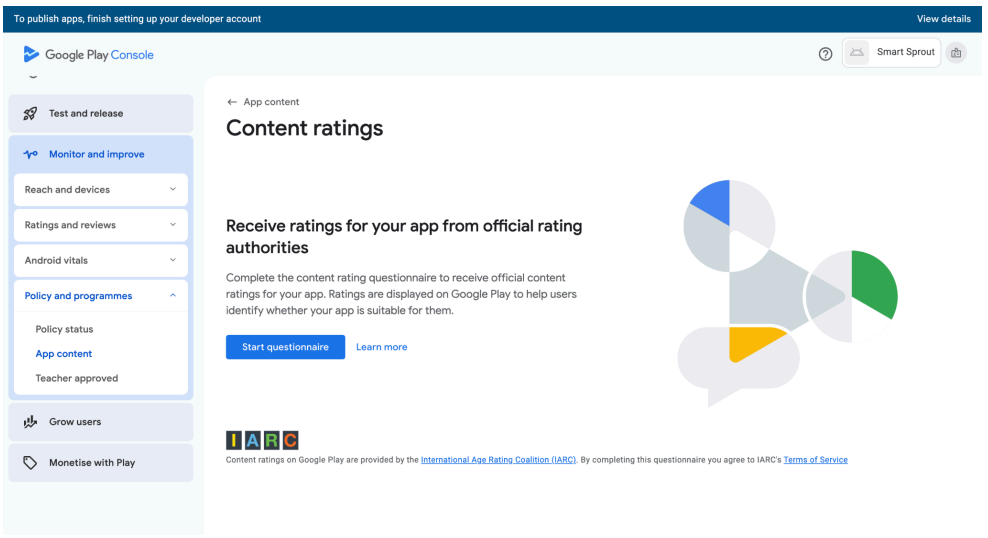
Steps for submitting the app to Google Play:

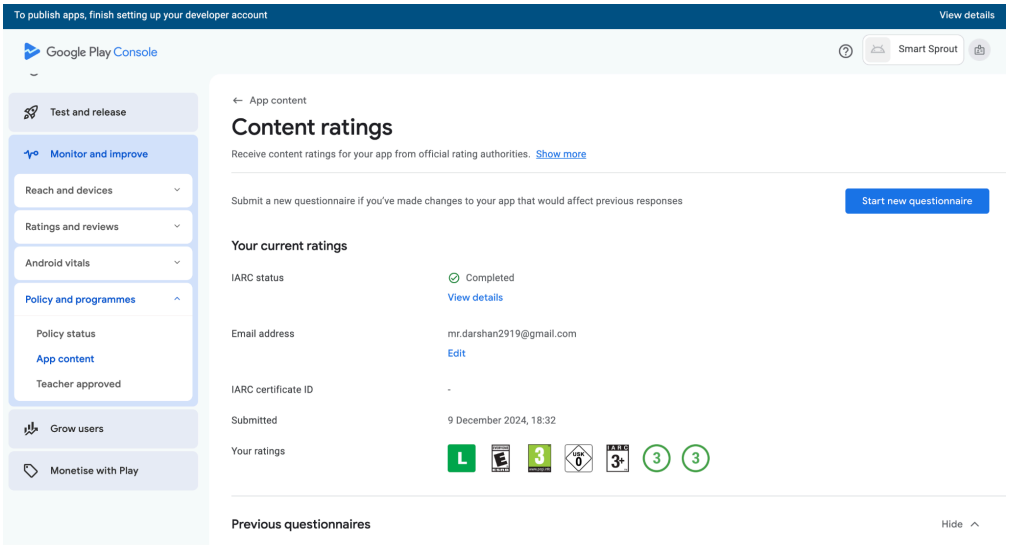


In this step, the app details, such as the name "Smart Sprout," default language, and type (App or Game), were entered in the **Google Play Console**. The app was marked as **free** before proceeding to the next steps.

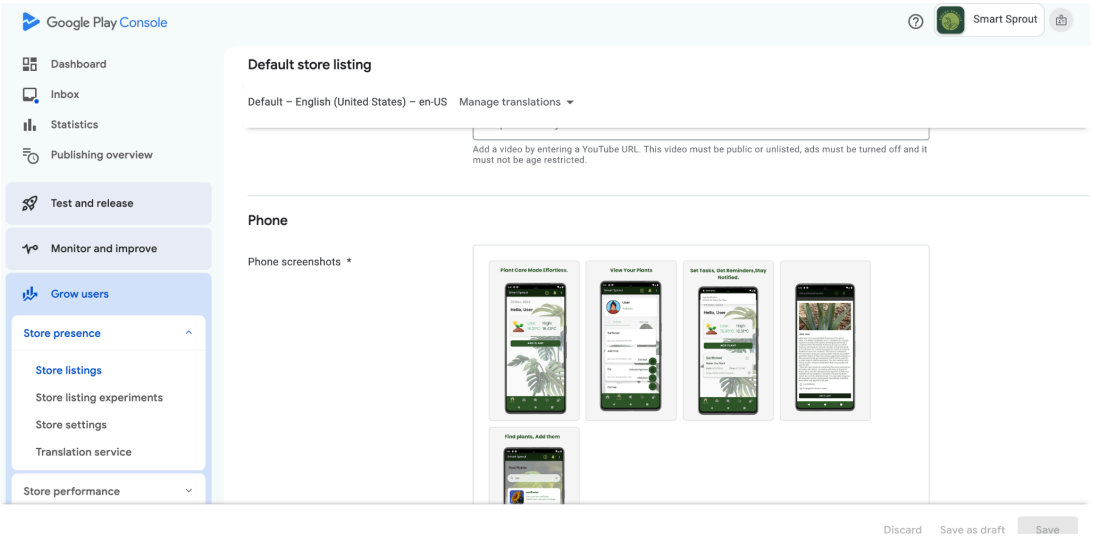


In this step, Google Play Console requires developers to address policy declarations to ensure the app complies with Play Store guidelines. If applicable, key actions include submitting a privacy policy and providing details on app access restrictions. Developers must complete these declarations to proceed with app publication.

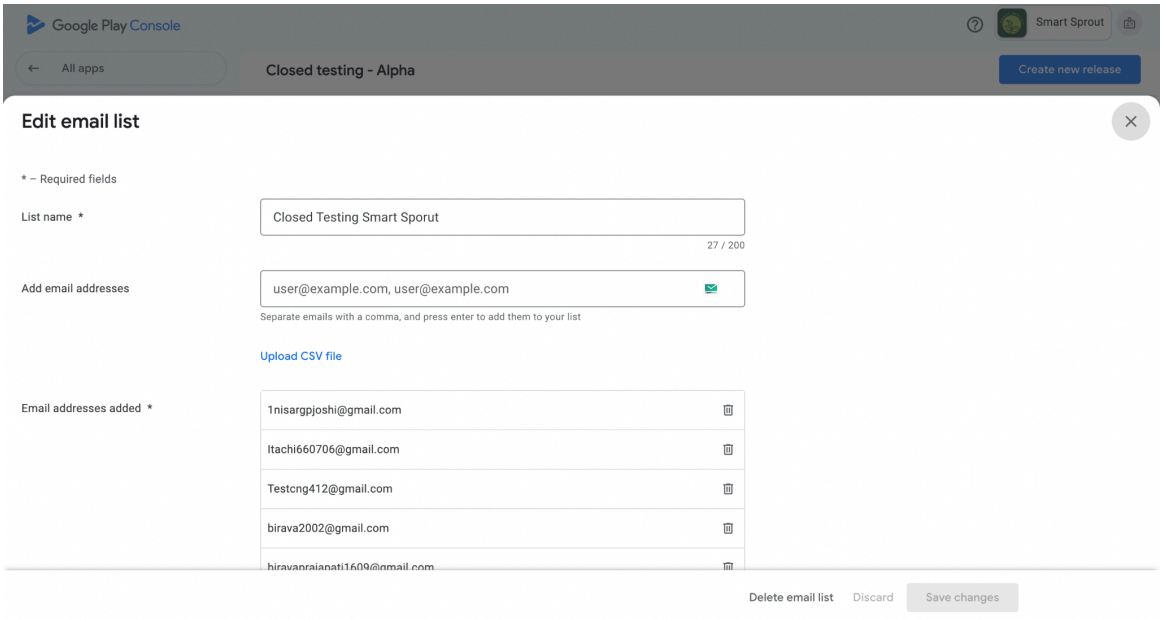




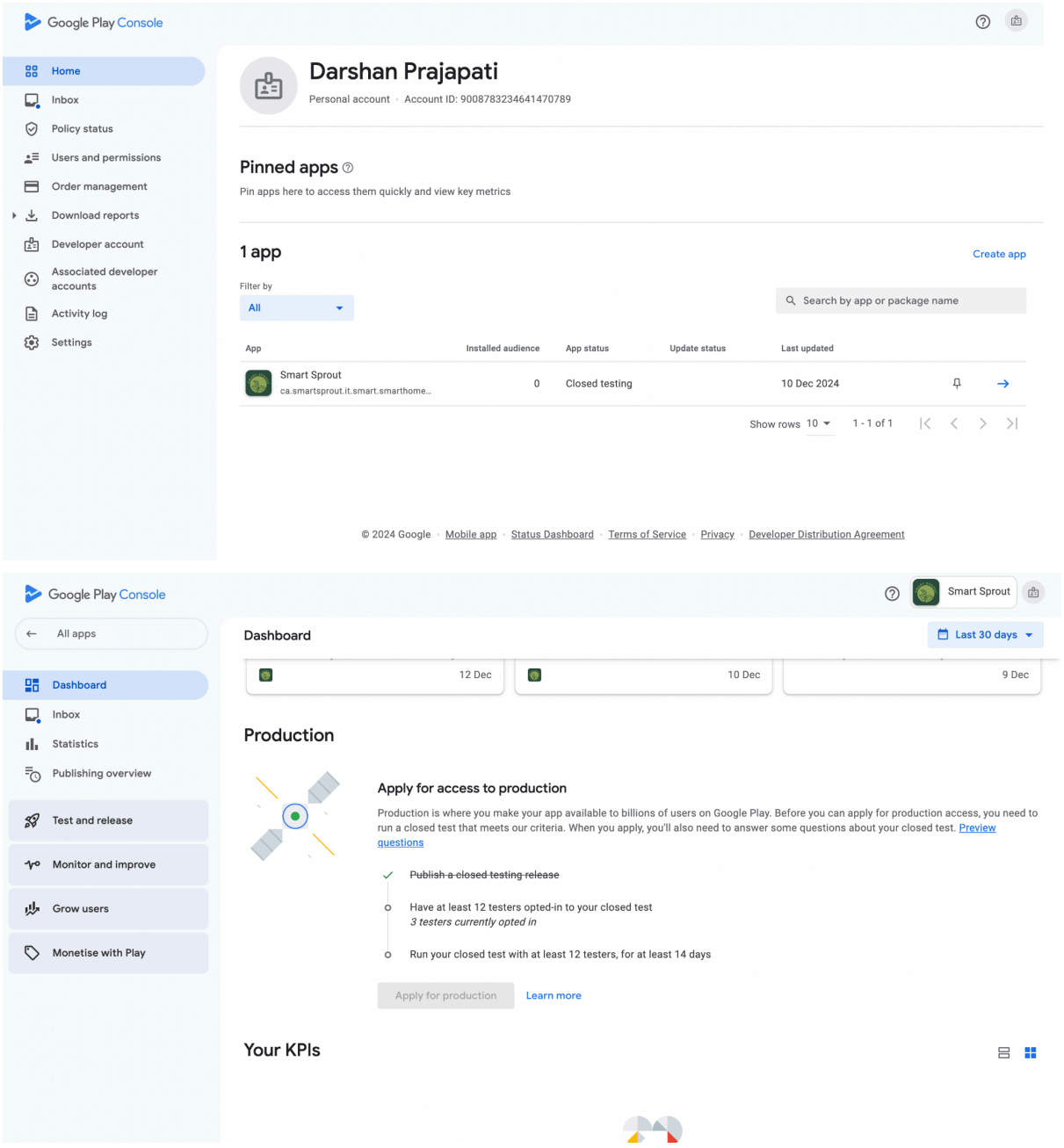
In this step, complete the Content Rating Questionnaire the International Age Rating Coalition (IARC) provided to determine your app's age suitability. Ratings help users understand whether your app is appropriate for their demographic and are displayed on its Play Store page.



The **Store Listing** section lets us showcase SmartSprout's features with engaging screenshots and descriptions. It helps users understand the app's functionality and encourages downloads on the Google Play Store.



In this step, the **email list** for closed testing was edited in the **Google Play Console**. Testers' email addresses were added, and the list was saved to enable them to access the app for testing.



Based on the screenshot, the app currently has **3 testers opted in**, but **at least 12 testers** need to opt in, and the app must be tested for a **minimum of 14 days**.

Prediction for Release Date:

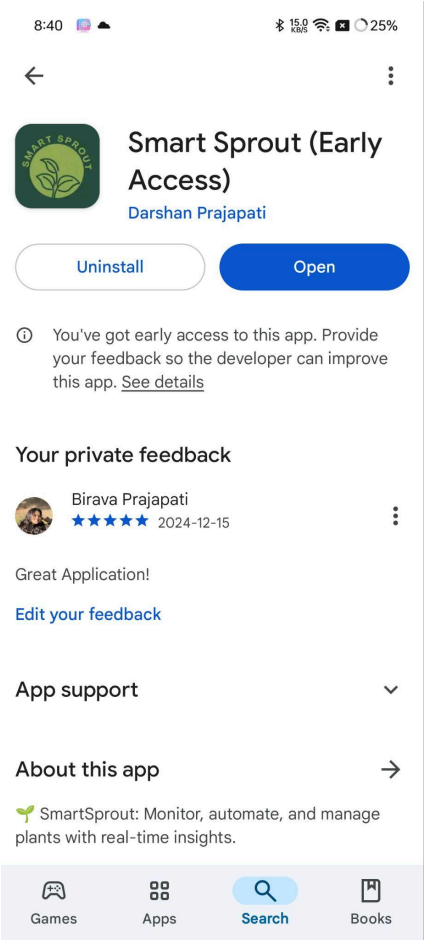
Assuming the following:

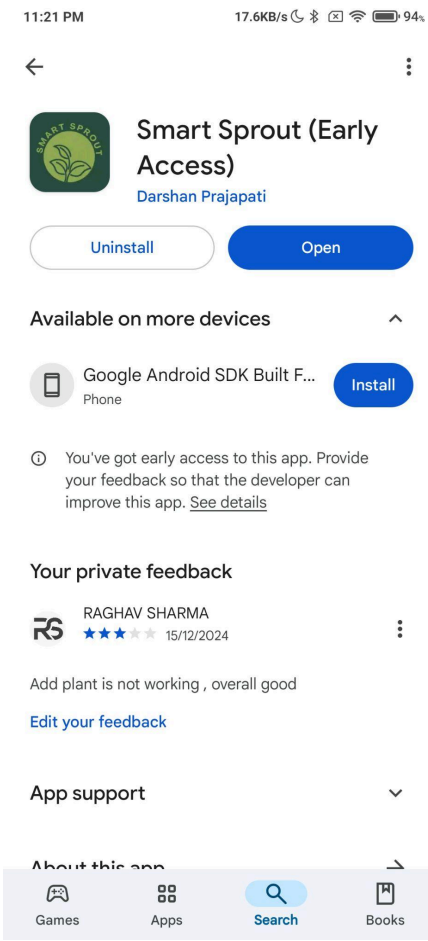
1. **12 testers** are gathered by **December 16, 2024**.
2. The app undergoes **14 days of closed testing** starting on **December 16, 2024**.

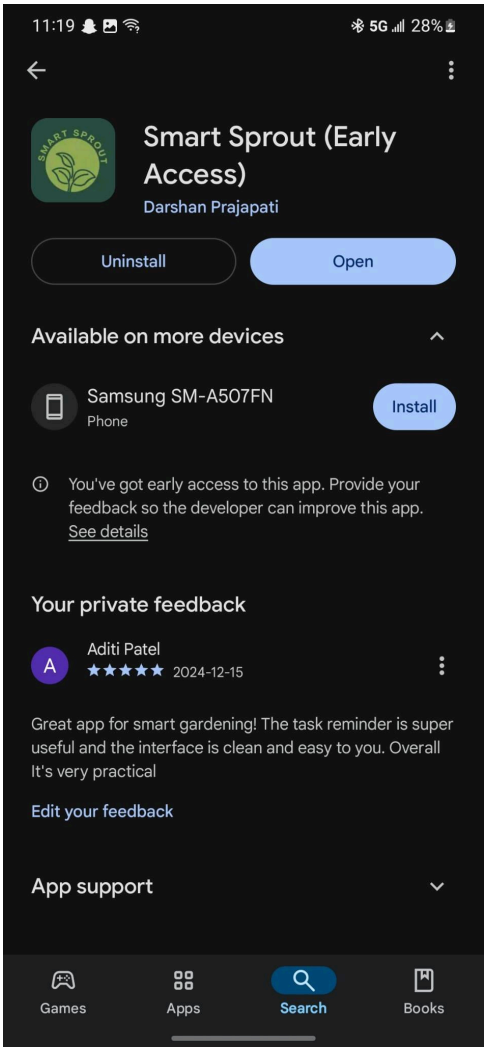
The earliest date the app could be submitted for **production access** would be:

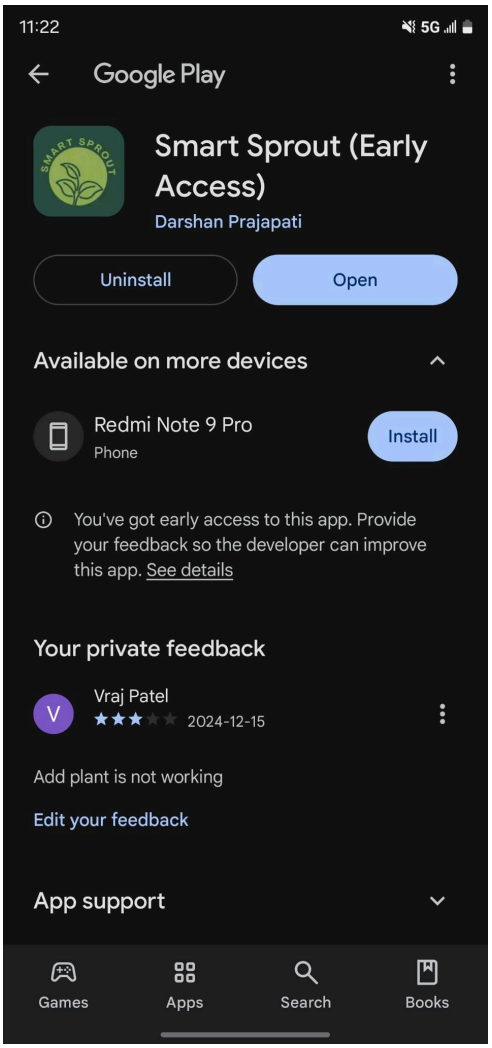
December 30, 2024.

Once submitted, Google Play's review process may take an additional **2–7 days**, meaning the app could be publicly available around **January 1 to January 5, 2025**, depending on the review timeline.









Google Play Link:
https://play.google.com/store/apps/details?id=ca.smartsprout.it.smart.smarthomegarden