

## Plant Disease Identification/Evaluation Service

Focus: Scalability, Interoperability.

QAs	Priority	Reason
Scalability	H	This software is expected to grow exponentially across the agriculture sector as a source of expert knowledge. A large user base should be prepared for.
Usability	H	As a large user base is expected, UI/UX should be considered carefully to make the app as user-friendly as possible.
Interoperability	H	Important because the core feature includes interchange of data between the client and the server. The server also needs to run or contact a separate ML model or human expert.
Availability	M	Not as important due to the relatively non-time-sensitive nature of the use case. Users can simply upload pictures later when service is available.
Modifiability	M	Important if newer features in addition to the disease identification are to be added. Examples can include farmer's market, weather forecast, etc.
Testability	L	Testing is a low priority for the current feature set because the scope is pretty small and not many faults can occur.

## Drone Web/Mobile Interface

Focus: Integration.

Example use cases: Delivery, crop monitoring, perimeter security/surveillance, disaster response

QAs	Priority	Reason
Interoperability	H	This is very important due to the fact that the web/mobile app has to communicate with physical hardware on the drones. The mobile app will also have to communicate with a server or different microservices.
Availability	H	This would depend on the exact use of the drones, but most use cases (e.g. disaster response) would need high availability when faced with a fault.
Concurrency/Consistency	H	This app is designed to be used by only a select few people so concurrency should not be an issue. However, a conflict can also be dangerous/costly in some cases, such as when 2 users connect to the same drone, causing potential crashes, etc.
Security	M	The focus of security would be on preventing third parties from accessing the drones through the app and using them maliciously. However, the severity of this would depend on the specific use case and hence the medium priority.
Portability	M	The software should be made available both on mobile and web platforms. A mobile app would be more useful in the field but a web app alone would also be able to meet the basic functional requirements.
Testability	M	If system faults and vulnerabilities can be detected quickly during testing before real world usage, failures and in turn costs can be reduced.
Usability	L	Although a satisfactory UX is always preferable, this app is meant to be only used by a few trained select users and its focus is on the functionality. Therefore usability would have a low priority.
Scalability	L	Due to the specific use case of the app, it does not need to scale beyond a few dozen users at most. The key feature is integration.

Modifiability	L	The core features will be developed along with the first major release so updates to the software will not be frequent.
Deployability	L	Once online, there will be few updates apart from minor bugfixes. Major feature updates will be few and far between.

## Podcast Streaming Service

Focus: Availability, Scalability, Usability.

QAs	Priority	Reason
Scalability	H	A streaming service should account for user growth which will skyrocket once it takes off. This will include user data, music data and the actual streaming servers among others.
Availability	H	Users would expect a streaming service to be available at all times.
Portability	H	The software should be available on all platforms so that users can utilize it at home, at work or on the move.
Usability	H	The software should be as user-friendly as possible because of the potential to drive away users due to a bad UX.
Deployability	M	The deployment of new features and fixes to production should be as fast as possible to minimize downtime.
Testability	M	Testing should be prioritized on user acceptance tests.
Security	L	User accounts should still be protected and attackers should not be able to compromise their client devices through the service.

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