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| Use Case Name: | User Registers | |
| Scenario: | A registration form will be shown if the user hasn’t created an account for the app yet (or wants to create a new account for the app) | |
| Triggering Event: | User registration | |
| Brief Description: | If the user hasn’t created an account yet or wants to create a new one, then the user will be directed to the registration screen | |
| Actor/s | * User * System | |
| Related Use Case: | - | |
| Stakeholders: | * System | |
| Preconditions: | * User must have internet access * App must be given permission to access internet on their devices. | |
| Post Conditions: | * User account created | |
| Flow of Activities: | User | System |
| 1. Login Screen verification 2. User enters account details   3.0 Users confirms account details | 1.1 Directs to Registration  2.1 System creates user account  3.0 Directs user to Login Screen |
| Exception Conditions: | 2.0 User will re-enter account details in case of invalid or mismatched information  2.1 User must enter unique username and email address. | |

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| Use Case Name: | Login | |
| Scenario: | Upon launching the app, the first screen the user will see is the login form | |
| Triggering Event: | App launched | |
| Brief Description: | Launching the app will directly go to the Login screen | |
| Actor/s | * Users * System | |
| Related Use Case: | Create Account | |
| Stakeholders: | * Users * System | |
| Preconditions: | * User must have internet access * User must have an existing Lyf account * User must give permission to internet access on their PDA devices | |
| Post Conditions: | * User is logged in the app * User can access plant functions | |
| Flow of Activities: | User | System |
| 1. Launched the app 2. User enters account credentials 3. User logged in | * 1. Directs to Login Screen   2. System verifies credentials   3.1 Display Lyf Home |
| Exception Conditions: | 1. App is not launched.   1.1 User has no account and must register a new account.  2.1 User entered incorrect credentials. User will be asked to enter credentials again. | |

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| Use Case Name: | Captures Plant Image | |
| Scenario: | User has photographed a plant for identification | |
| Triggering Event: | User wants to identify a certain plant | |
| Brief Description: | Once the user is logged in the app, he/she can now use the app’s intended features, like browsing for the plants and capturing for identification. | |
| Actor/s | * Users * System | |
| Related Use Case: | * Login * User Registers | |
| Stakeholders: | * System | |
| Preconditions: | * User’s device must have a Camera * User must give permission to camera and internet access. | |
| Post Conditions: | * Photo uploaded for processing | |
| Flow of Activities: | User | System |
| 1.0 User captures photo | 1.1 Upload photo to system |
| Exception Conditions: | 1.0 Permission to access camera not granted.  1.1 Permission to access internet not granted. | |

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| Use Case Name: | Process Image | |
| Scenario: | System compares image with training data set | |
| Triggering Event: | System receives photo | |
| Brief Description: | Once the image is uploaded to the system, it replies with match to the user’s photograph. | |
| Actor/s | * System | |
| Related Use Case: | * Login * User Registers * Captures Plant Image | |
| Stakeholders: | 1. System | |
| Preconditions: | * User must have photographed a plant | |
| Post Conditions: | * Display result | |
| Flow of Activities: | System | User |
| 1.0 System find match  2.0 System get device location  3.0 System generate result | 1.0 User is notified of match finding  2.0 User is notified of location usage  3.1 Receive result |
| Exception Conditions: | 2.0 Permission to access device location not granted  3.0 Permission to access internet not granted | |

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| Use Case Name: | Creates not found report | |
| Scenario: | System creates report if plant match is not found | |
| Triggering Event: | Plant cannot be identified by system | |
| Brief Description: | In cases of no matches in the system’s data set , the system will generate a not found report | |
| Actor/s | * System | |
| Related Use Case: | * Login * User Registers * Process Image | |
| Stakeholders: | * System * User | |
| Preconditions: | * System is not able to find a match from the data set | |
| Post Conditions: | * Not found report is created | |
| Flow of Activities: | System | User |
| 1.0 Generate plant not found report | 1.1 User is notified that a not found report is created |
| Exception Conditions: | 1.0 Plant is identified by the system | |

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| Use Case Name: | Create mislocation report | |
| Scenario: | User reports incorrect/missing location | |
| Triggering Event: | Report from user | |
| Brief Description: | User can create mislocation report if locations of plant matches are incorrect or missing. | |
| Actor/s | * System * User | |
| Related Use Case: | * Login * User Registers | |
| Stakeholders: | * System * Admin | |
| Preconditions: | * The user must have reported for either incorrect match or mislocation. | |
| Post Conditions: | * Mislocation report generated | |
| Flow of Activities: | User | System |
| 1.0 User reports incorrect match or plant not found in the location | 1.1 System generates mislocation reports |
| Exception Conditions: | - | |

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| Use Case Name: | Create add information request | |
| Scenario: | User wants to add plant information | |
| Triggering Event: | User adds information | |
| Brief Description: | Users can share information currently not available in the system | |
| Actor/s | * User * System | |
| Related Use Case: | * Login * User Registers | |
| Stakeholders: | * System * Admin | |
| Preconditions: | - | |
| Post Conditions: | * User has created an add information request | |
| Flow of Activities: | User | System |
| 1.0 User creates a request to add information to the system | 1.1 System generates Add Information request for the admin |
| Exception Conditions: | - | |

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| Use Case Name: | Validate Report and Request | |
| Scenario: | Admin responds to requests and reports | |
| Triggering Event: | Validation from Admin | |
| Brief Description: | Admin checks reports and requests. Admin can update locations as a response to mislocation reports. | |
| Actor/s | * Admin * System | |
| Related Use Case: | * Login | |
| Stakeholders: | * System | |
| Preconditions: | * Admin must be logged in | |
| Post Conditions: | * System records updated. | |
| Flow of Activities: | Admin | System |
| 1.0 Admin logs in to system  2.0 Admin selects record to be edited  3.0 Admin make changes to record | 1.1 Display all plant match records  2.1 Display edit record form  3.1 System updates records |
| Exception Conditions: | 3.0 Admin makes no changes to records. | |

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| Use Case Name: | Edits Plant Glossary | |
| Scenario: | Admin updates plant glossary | |
| Triggering Event: | Admin updates plant details in the system | |
| Brief Description: | Admin can add new findings/information originating from the admin or users to make sure it is up-to-date. | |
| Actor/s | * Admin * System | |
| Related Use Case: | * Login | |
| Stakeholders: | * System | |
| Preconditions: | * Admin must be logged in | |
| Post Conditions: | * Plant Glossary updated | |
| Flow of Activities: | Admin | System |
| 1.0 Admin logs in to system  2.0 Admin selects record to be edited  or creates new plant record  3.03 3.0 Admin make changes to record  submit new record | 1.0 Display all plant records  2.1 Display edit/create record form  3.1 System updates records |
| Exception Conditions: | 3.0 No information will be added. | |