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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: | - | |
| Stakeholders: | * 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 | 1.1 Directs to Login Screen |
| Exception Conditions: | * App is not launched. * App is not installed | |

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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 |
| 1.0 Login Screen verification | 1.1 Directs to Registeration |
| Exception Conditions: | * Invalid or mismatched info * No inputted username/password * Username and/or email already belongs to another existing user. * PDA Device has no internet access. | |

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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 | |
| Stakeholders: | * System | |
| Preconditions: | * User’s device must have a Camera * User must have internet and location access * User must give permission to internet and location access on their PDA | |
| Post Conditions: | * Photo uploaded for processing | |
| Flow of Activities: | User | System |
| 1.0 User captures photo | 1.1 Upload photo to system |
| Exception Conditions: | * App is not launched. * PDA Device has no camera * PDA Device has no internet access | |

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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 * Captures Plant Image |
| Stakeholders: | * System |
| Preconditions: | * User must have photographed a plant |
| Post Conditions: | * Display result |
| Flow of Activities: | System |
| 1.0 System find match  2.0 System get device location  3.0 System generate result |
| Exception Conditions: | * User did not take a photo * Photo not successfully uploaded to system * PDA Device has no internet and location access |

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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 * 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 |
| 1.0 Generate not found report |
| Exception Conditions: | * System successfully found a match to the user’s photograph |

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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 | |
| Stakeholders: | * System | |
| 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: | * No request from user. | |

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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 | |
| Stakeholders: | * Admin * System | |
| Preconditions: | * - | |
| Post Conditions: | * User has created an add information equest | |
| 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: | * No request from user. | |

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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 and update plant glossary as response to Add Information Request. | |
| Actor/s | * Admin * System | |
| Related Use Case: | * Login | |
| Stakeholders: | * System | |
| Preconditions: | * Admin must be logged in | |
| Post Conditions: | * Location/s updated. * Plant Glossary updated | |
| Flow of Activities: | Admin | System |
| 1.0 Edit Plant Details  2.0 Edit location generated by plant match | 1.1 Update plant glossary  2.1 Update plant match result |
| Exception Conditions: | * No reports/requests created. | |

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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 Edit Plant Details | 1.1 Update plant glossary |
| Exception Conditions: | * No information will be added. | |