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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 now take a photo of a plant or browse within the app | |
| Flow of Activities: | User | System |
| 1.0 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 | * Users * System | |
| Related Use Case: | * Login | |
| 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 | |

Note:

Pre:

* User must have a PDA Device that has at least 1GB RAM, a GPS and Camera
* User must have internet and location access

User must give permission to internet and location access on their PDA

Post:

* User is logged in the app
* User can now take a photo of a plant or browse within the app

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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: | * User Registers | |
| 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’s hardware specs is below the app’ minimum requirements. * PDA Device has no Camera * PDA Device’s software is outdated or has an unsupported version * 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 server the systems replies back with possible matches to the user’s photograph. |
| Actor/s | * System |
| Related Use Case: | * Captures Plant Image |
| Stakeholders: | * System |
| Preconditions: | * User must have photographed a plant * User must have internet and location access |
| Post Conditions: | * Plant match 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 |

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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 |
| 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: | Once the system has generated a not found report it will display a “Not Found” on the user’s screen. | |
| Actor/s | * System * User | |
| Related Use Case: | * Creates not found report | |
| Stakeholders: | * System | |
| Preconditions: | * System must have failed to find a match from the data set * 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 not found report is generated | |

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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: | Once the system has generated a mislocation report, the system will prompt a button that redirects to a forum for a user if he/she wants to share additional information about the plant he/she photographed. | |
| Actor/s | * User * System | |
| Related Use Case: | * Create mislocation report | |
| Stakeholders: | * Admin * System | |
| Preconditions: | * System must have generated a mislocation report | |
| Post Conditions: | * User will be prompted to add information through a forum | |
| Flow of Activities: | System | User |
| 1.0 Prompt button for a forum  2.0 System generates Add Information request for the admin | 1.1 Validate report  - |
| Exception Conditions: |  | |

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| Use Case Name: | Validate Report and Request | |
| Scenario: | Admin responds to requests and reports | |
| Triggering Event: | Requests and reports from user | |
| Brief Description: |  | |
| 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: |  | |

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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: |  | |
| 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: |  | |