Low Level Design

Instagram profile DP downloader & Post Uploader Mobile app.

Document Version Control

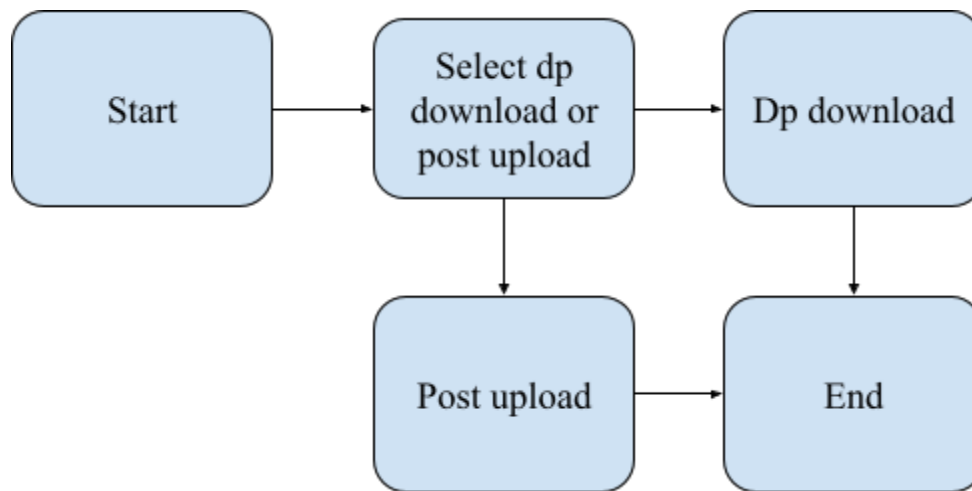| Version	Date	Description	Author
0.1	6/4/23	Initial LLD	Janvi Bandhara Hinal Parikh

Contents

1. Introduction

1.1 What is a Low-Level design document?

The goal of LLD or a low-level design document (LLDD) is to give the internal logical design of the actual program code for Instagram dp download and post uploader app.

1.2 Scope

Low-level design (LLD) is a component-level design process that follows a step-by-step refinement process. This process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the data organization may be defined during requirement analysis and then refined during data design work.

2. Architecture

```
┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│              │      │  Select dp   │      │              │
│    Start     │ ───▶ │ download or  │ ───▶ │ Dp download  │
│              │      │ post upload  │      │              │
└──────────────┘      └──────────────┘      └──────────────┘
                             │                     │
                             ▼                     ▼
                      ┌──────────────┐      ┌──────────────┐
                      │              │      │              │
                      │ Post upload  │ ───▶ │     End      │
                      │              │      │              │
                      └──────────────┘      └──────────────┘
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3.   Architecture Description

3.1   Select dp download or post upload
From here the app is bifurcated into two parts i.e dp download page and post uploader page.

3.2   Dp Download
Here, users have to enter the username in order to download their dp.

3.3   Post upload
Here, users have to enter the necessary credentials for logging into their account so that the post can be uploaded.

4. Unit Test Cases

Test Case Description	Prerequisite	Expected Result
Verify whether the apk is working properly	Apk should not crashed on start	Apk working properly without crashing
Verify whether the page are accessible	Pages should be redirected properly	Pages are properly redirected back and forth
Verify that the dp gets downloaded	Dp should be downloaded in the download folder	Toast message gets displayed if Dp gets downloaded in the download folder
Verify that if dp already exists in the system	Dp already exists the message should be displayed to the user	Toast Message gets displayed if dp already exists in the system.
Verify that if passed username not present	Profile not found message should be displayed if the entered username doesn't exists on instagram	Toast Message gets displayed if the profile doesn't exists on instagram
Verify whether the logging process is done properly	Logging should be done onto the entered accounts credential	Logging into account is working properly
Verify whether the credentials are incorrect	Message should be displayed if the logging credentials are incorrect	Dialog box displayed if logging process doesn't gets completed
Verify whether the post get uploaded	Post should be uploaded	Toast message appears if Post get uploaded to the entered account

Verify all the buttons are working properly	App shouldn't get crashed due to button not working properly	Buttons are working properly
Verify that fields are not accessible when one process is going on	Fields should be disabled	Fields are disabled when the process is ongoing
Verify that two-factor Authentication is close	Two-Factor Authentication should be turned off while uploading the post	Two-Factor authentication is turned off