Smart Visiting Card

Team : Brute Force

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APK :
https://drive.google.com/file/d/1ocdW7ZEhfXPMmqSsQB81K9RSl_P8fDIg/view?usp=sharing

GitHub Repo :
https://github.com/TweshaSatia/Flutter_Events_BruteForce

Figma File :
https://www.figma.com/file/BoU6LZdqCfzpzH7j5ekrva/LinkedIn-Connector?node-id=0%3A1

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Introduction:

The purpose of Smart Visiting Card is to auto connect with people across the world on the linkedin app via scanning the qr code.

Features:

The application has a registration form which stores the data entered by the user into local storage.

The QR Code is generated dynamically on the basis of the details entered like linkedin profile id entered by user at the time of generation.

On scanning any qr code or generated qr code, the user will be redirected to the respective url if it is a valid one. In our case the user will be redirected to the linkedin profile whose qr code has been scanned.

Our application will first ask for the permission to access the camera for scanning the qr code. It also has features of pausing and resuming the camera.

Consists of three pages :
1. Registration Page
2. Home Page
3. Scan QR Page

Tools and Technologies Used :
1. Android + iOS emulators
2. Visual Studio Code
3. GitHub
4. Flutter framework -
   - Dart language
5. Puppeteer

Packages used :
- get_storage - ^2.0.3
  - This is a light-weight package which stores data in key-value pair format. Hence, we have used this package to store our app data into local storage.
- barcode_widget - ^1.5.0
  - This package is used for simple and fast Barcode rendering. We have used it to generate qr code.
- qr_code_scanner - ^1.0.1
  - This package is used for scanning the qr code seamlessly
- url_launcher - ^6.1.5
  - The URL Launcher is a Flutter plugin that allows your applications to launch web browsers, map applications, dialer applications, mail applications, and so on.
- flutter_lints
  - A linting library to write code using good coding practices
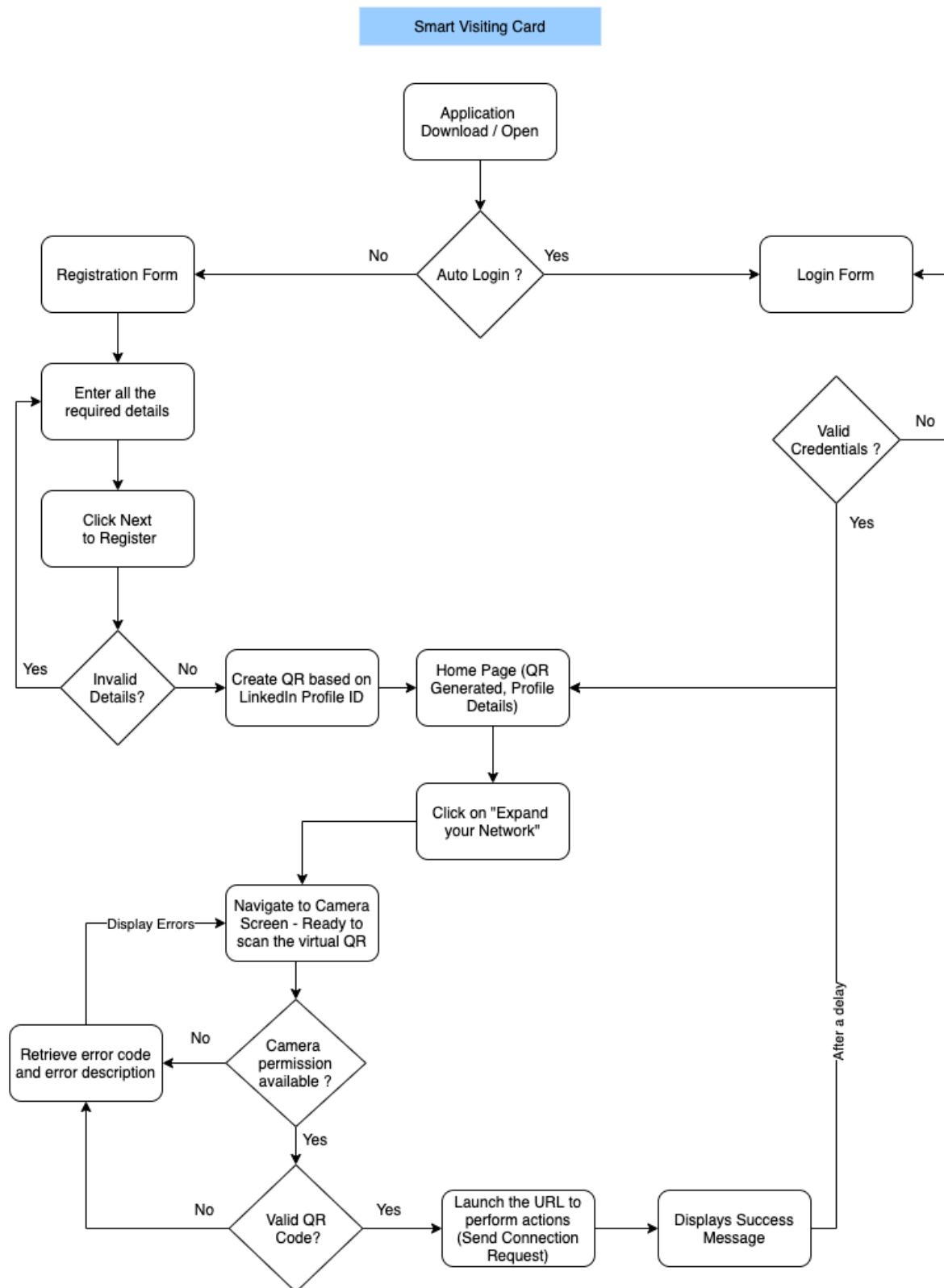
Installation :

Download apk and install it on your device.

Usage

- Once the user has downloaded and installed the application, the user will be redirected to the Registration Page first.
- The user will have to enter Name, Email ID (Valid) and the LinkedIn Profile ID based on which the QR will be generated after registering.
- Navigating to the Home Page after registering, we will have the generated QR Code and the button to expand the network by connecting to other users.
- On clicking Expand your network, User will be navigated to the page which will provide the option to scan the Virtual QR Code.
- Once scanned, users will be redirected to the respective URL if the QR Code is a valid QR Code.
- Alongside, User can pause and resume the camera as per the requirement
- Camera can be flipped front or back on the basis of the requirement from where the user wants to scan the QR Code
- Next, the user will be on the redirected URL and can perform the actions needed.

HAPPY CONNECTING!

Flowchart

Smart Visiting Card

Application Download / Open

Auto Login ?
— No → Registration Form
— Yes → Login Form

Registration Form → Enter all the required details → Click Next to Register → Invalid Details?

Invalid Details?
— Yes → Enter all the required details
— No → Create QR based on LinkedIn Profile ID

Create QR based on LinkedIn Profile ID → Home Page (QR Generated, Profile Details)

Login Form → Valid Credentials ?
— No → Login Form
— Yes → (After a delay) → Home Page (QR Generated, Profile Details)

Home Page (QR Generated, Profile Details) → Click on "Expand your Network" → Navigate to Camera Screen - Ready to scan the virtual QR

Display Errors → Retrieve error code and error description

Navigate to Camera Screen - Ready to scan the virtual QR → Camera permission available ?
— No → Retrieve error code and error description
— Yes → Valid QR Code?

Valid QR Code?
— No → Retrieve error code and error description
— Yes → Launch the URL to perform actions (Send Connection Request) → Displays Success Message

Minutes Of Meetings (MOMs)

Meeting 1 : Sep 22, 2022 | BruteForce Connect

Attendees : Dhanvi Shah Pranav Gajjar Twesha Satia

Duration : 1.5 hours

Notes :
- Discussion about the progress on Flutter Course
- Understanding the problem statement of the hackathon
- Discuss the solution to move forward

Meeting 2 : Sep 23, 2022 | BruteForce Connect

Attendees : Dhanvi Shah Pranav Gajjar Twesha Satia

Duration : 5 hours

Notes :
- Installation of Android Studio, Android Emulators, iOS emulators
- Installation and Setup XCode
- Resolved errors faced while installation

Meeting 3 : Sep 24, 2022 | BruteForce Connect

Attendees : Dhanvi Shah Pranav Gajjar Twesha Satia

Duration : 3 hours

Notes :
- Designing Figma Files
- Research about the packages used for QR generation and QR Scan
- Create a flow for the app using flow diagram
- Discussed feasibility of the implementation

Meeting 4 : Sep 25, 2022 | BruteForce Connect

Attendees : Dhanvi Shah Pranav Gajjar Twesha Satia

Duration : 2.5 hours

Notes :
- Started implementation of the task with Registration Page
- Designed Logo
- Researched and implemented the storage of data collected while registration into local storage using flutter package

Meeting 5 : Sep 25, 2022 | BruteForce Connect

Attendees : Dhanvi Shah Pranav Gajjar Twesha Satia

Duration : 4 hours

Notes :
- Updated Figma File
- Figured out how to access data for QR generation
- Implemented QR Generation (Home Page) and QR Scanner Page
- Faced issues with camera
- Started POC for LinkedIn Invitation API

Meeting 6 : Sep 26, 2022 | BruteForce Connect

Attendees : Dhanvi Shah Pranav Gajjar Twesha Satia

Duration : 5 hours

Notes :
- Resolved Camera Issues
- Added functionality of Resume, Pause Camera, Flip Camera
- Launch URL to redirect user to the respective valid URL after scanning QR Code
- Failed to make LinkedIn Invitation API work
- Thought of a few work arounds as alternative to LinkedIn Invitation API
- Started Documenting Libraries and Packages used
- Updated Flowchart

Meeting 7 : Sep 27, 2022 | BruteForce Connect

Attendees : Dhanvi Shah Pranav Gajjar Twesha Satia

Duration : 4 hours

Notes :
- Found out about Puppeteer testing framework and did POC to automate sending connection request on linkedIn, but not integrated
- Cleaned up the code
- Merged the Open PRs and closed them if any
- Updated Documentation with Features, Installation and Usage guide
- Updated Readme.MD file
- MOMs added
- Shared APK via whatsapp