****

CSE431: Mobile Programming

**Presented by:**

**Mariam Essam 20P6483**

**Date:**

**12/20/2024**

**Documentation**

## Introduction

Hedyety is a gift management mobile application that allows user to create events, associate gifts with the events and share this information with his friends. This will enable his friends to see his wish list and pledge him the gifts on his special occasions. Hedyety is a flutter application that is developed while giving utmost importance to having a user-friendly interface. It will also integrate local database and real-time database for data storage. Additionally barcode scanner feature to enable automatic addition of gifs in the wish list. And much more features are included including a notification system, animation. Finally to ensure high application quality testing will be done using auto-test scripts.

## Survey of Similar Applications

**Christmas Gift List** is one similar application used for tracking and allows setting a budget for gifs, list sharing through email, Twitter and other apps and having backups on Google drive. It also supports different languages and currency, provides statistics such as total budget and uses passwords to ensure user’s gift list is protected. However, it does not support user in creating events, since it used for Christmas gifts and it only available on Android platform.

**Elfster: The Secret Santa App** supports Android, iOS and online browsing. It can be used as Secret Santa generator, manage your gifts and suggest gifts. It provides a user-friendly interface and fast responses and save time of user especially in the Christmas season. It also provides stock, however it lack gifts for certain users and sometime the products are out-of-stock. The stock feature made this software stand out.

**GiftList** supports Android, iOS and online browsing. It provides the user with the ability to scan the gift form the shelves and stores. In addition to having a chat feature besides gift management. Not to mention the ability to shop from known brands like Amazon, Walmart, Ebay and even small brands. There is also a blog section on the website.

## UI Design Description and Screenshots

* Reusage of common widgets like
* Template widget with app bar, drawer, padding
* Design was mainly a column with a single child scroll view and sized box for spacing
* Design by default support the two orientations with exception to home (so adjustments was made making all buttons in the same row)

A screenshot of a login page

Description automatically generated A screenshot of a login screen

Description automatically generated A screenshot of a phone

Description automatically generated A screenshot of a phone

Description automatically generated A screenshot of a phone

Description automatically generated A screenshot of a phone

Description automatically generated A screenshot of a phone

Description automatically generated A screenshot of a phone

Description automatically generated A screenshot of a phone

Description automatically generated A white background with pink and black lines

Description automatically generated with medium confidence A white background with pink and black lines

Description automatically generated with medium confidence A screenshot of a phone

Description automatically generated

A person sitting in a movie theater

Description automatically generated A screenshot of a computer

Description automatically generated

.A screenshot of a computer

Description automatically generated A red and white flag with a blue circle and a person's head

Description automatically generated

## Code Description A screenshot of a computer program Description automatically generated

* Common> contains frequently used widget to avoid code duplication
* Constants> contains constant list and validators
* A screenshot of a computer

  Description automatically generatedRepository contains
  + models which access local database
  + Local database
  + Authentication Service
  + Shared Preferences
  + Realtime database
  + Notification Service (Firebase API)
  + A screenshot of a computer

    Description automatically generated Some Other files
  + A screenshot of a computer program

    Description automatically generatedFeature based hierarchy
  + With each folder containing the view and the controller of each page

## Navigation Scenarios

* Sign Up > Login
* Add Friend> View Friends Events > Filter > View Friends Gifts > Filter > Pledge
* Add Event for User> Add Gifts > Edit > Publish all events, gifts and profile
* View and Edit Profile > Save Changes > Swipe> View All Gifts and Events
* View My Pledged Gifts > Change Status to purchased
* Drawers for fast navigation

A screenshot of a phone

Description automatically generatedA white rectangular object with red corners

Description automatically generated

## Test Plan and Test Scoreboard

* Test Scenario: Pledging Scenario (End to End)
* Unit Testing: Test local database functions
* All tests passed before adding form validation. Now end to end test will not pass because from inputs are not valid.

## Known Bugs

* Sometime the list is duplicated
* Sometime the pages need to be reloaded

## Publishing on Amazon Store

https://www.amazon.com/gp/product/B0DR32XX17

A screenshot of a computer

Description automatically generatedA screenshot of a phone

Description automatically generated

## YouTube Video

<https://youtube.com/shorts/0nztizaDP2w>

## GitHub Activity and Link

https://github.com/XXMariamX/Hedyety

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A white lined paper with blue lines

Description automatically generated