
INDIVIDUAL ASSIGNMENT

LEVEL 5

COMP50011

Mobile App Development

SENG2461

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CB No : CB014764

INSTRUCTION TO CANDIDATES

- 1. Students are advised to underpin their answers with the use of references (cited using the Harvard Referencing Style).**
- 2. Late submission will be awarded zero (0) unless extenuating circumstances (EC) are upheld.**
- 3. Cases of plagiarism will be penalized.**
- 4. The assignment should be submitted as a softcopy:**
 - a. The softcopy of the written assignment and source code must be uploaded to given link in the LMS.**

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GitHub Repository Link

<https://github.com/Sukitha543/MAD-Assignment.git>

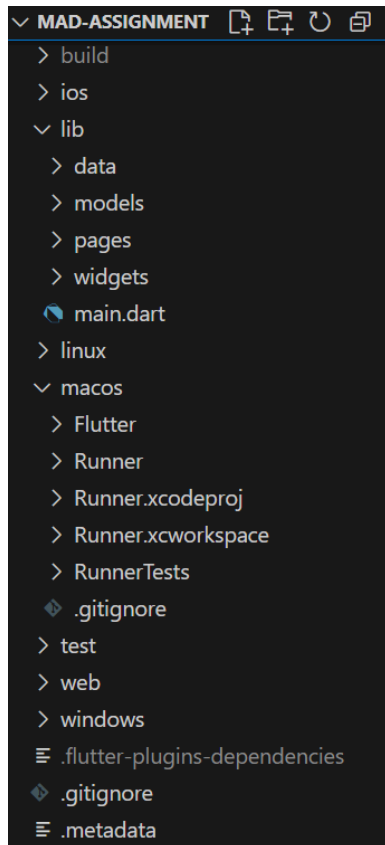
About the App

This is an E-commerce application developed using Flutter for selling luxury watches. Being a middleman for various watch brands, the application supports easy distribution all over the country. Users are provided with an easy-to-use interface to browse, select, and purchase watches without any hassle.

Key Features

- Simple UI Design
- Supports landscape and portraits
- Consists with a master page for product details
- Profile Creation
- Add to cart functionality
- Payment page

Folder Structure



The project is organized under four main folders under the lib folder namely model, data, widgets, and screens.

- Model – Contains classes created for the products and users.
- Data – Holds the data of users and products to handle data throughout the app.
- Widgets – Contains all the basic widgets common across the app such as buttons, text fields, and other reusable UI widgets.
- Pages – Contains all the screens that are part of the application.

Test Cases

Functionalities

Test ID	Name	Description	Prerequisites	Expected Output	Actual Output	Status
#TC1	User Login	Verifies that the user can log in using valid credentials.	Username and Password	If the credentials are correct, the user is directed to the home screen. If not, an error message is displayed.	If the credentials are correct, the user is directed to the home screen. If not, an error message is displayed.	Pass
#TC2	User Registration - email	Email should contain both '@' and '.' symbols.	Input fields	Displays an error message if the email does not contain '@' or '.'	Displays an error message if the email does not contain '@' or '.'	Pass
#TC3	User Registration - password	Checks that the password and confirm password fields match.	Input fields	Displays an error message if the passwords do not match with the confirmed password	Displays an error message if the passwords do not match with the confirmed password	Pass
#TC4	Cart Page – Navigation	Ensures that users can only navigate to the cart page if products are added.	Cart page is accessed without adding products.	Displays an error message if there are no products in the cart	Displays an error message if there are no products in the cart	Pass

#TC5	Cart Page – Empty cart	Verifies that the app redirects to the home screen when all products are removed from the cart.	Remove button	Redirects to the home screen and displays a warning message.	Redirects to the home screen and displays a warning message.	Pass
#TC6	Add to Cart - Duplicate	Checks that duplicate products cannot be added to the cart.	Product already exists in the cart	Displays an error message when attempting to add a duplicate product.	none	Fail
#TC7	Payment Page	Validates that all input fields on the payment page are filled correctly.	Input fields	Displays an error message if incorrect or empty input is entered	Displays an error message if incorrect or empty input is entered	Pass
#TC8	Clear Cart	Ensures that all products in the cart are cleared after a successful payment.	Products in the cart	Products must be present in the cart.	none	Fail
#TC9	Logout	Ensures that the user can successfully sign out from the app.	Logout button	Clears the session and redirect back to the login page	Clears the session and redirect back to the login page	Pass

UI

Test ID	Name	Description	Prerequisites	Expected Output	Actual Output	Status
#TC1	Navigation	Verifies that the user can navigate smoothly throughout the app using the bottom navigation bar.	Bottom Navigation bar	Directs the user to the relevant screen when a navigation item is selected.	Directs the user to the relevant screen	Pass
#TC2	Dark Mode	Tests whether the app adapts its color scheme when the device theme is switched to dark mode.	Device must support dark mode functionality.	The app's colors should fully adapt to the dark mode theme.	none	Fail
#TC3	Transitions	Ensures that smooth animations occur when navigating from the product list screen to the product detail screen.	Product screen and product detail screen must be implemented.	Navigates with a fade transition animation between screens.	Navigates with a fade transition animation between screens.	Pass
#TC4	Responsiveness	App adjusts its layout correctly when the device orientation changes to landscape.	Media Queries	App should rotate to landscape mode and the layout should adjust accordingly.	Only Home Screen	Pass/Fail

Screenshots

Login



Hi, Welcome! 🙌

Login

Username

Password

Sign in

Don't have an account? [Sign Up](#)



Hi, Welcome! 🙌

Login

Username

Password

Sign In

Don't have an account? [Sign Up](#)

Sign Up



Sign Up

First Name

Jhon

Last Name

Doe

Email Address

jhondoe@gmail.com

Shipping Address

Colombo, Sri Lanka

Contact Number



Last Name

Doe

Email Address

jhondoe@gmail.com

Shipping Address

Colombo, Sri Lanka

Contact Number

Username

Password

Confirm Password

Sign up

Already Registered? [Log in](#)



Sign Up

First Name

Jhon

Last Name

Doe



Email Address

jhondoe@gmail.com

Shipping Address

Colombo, Sri Lanka

Contact Number



Colombo,Sri Lanka

Contact Number

Username

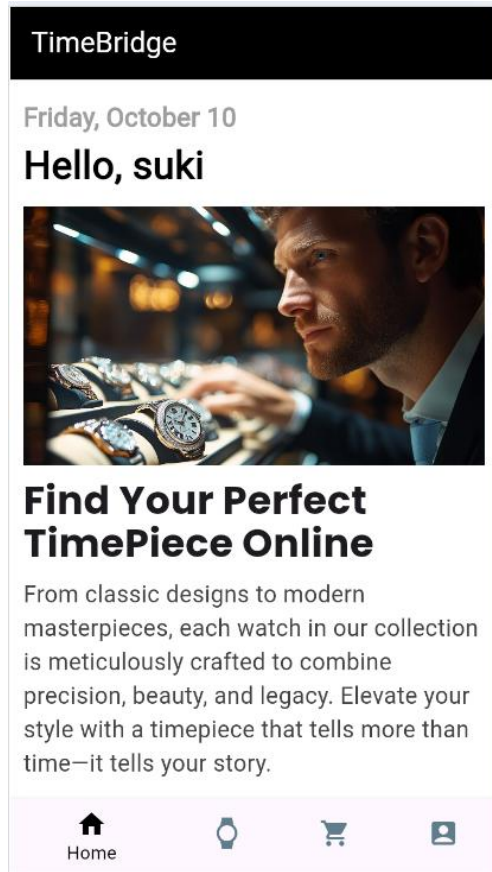
Password

Confirm Password

Sign up

Already Registered?[Log in](#)

Home Page



TimeBridge



SEIKO

Contact Information

 **Our Location**
41-Galle Road, Colombo 03

 **Call Us**
112353787

 **Email**
info@TimeBridge.lk



TimeBridge

Friday, October 10

Hello, suki



Find Your Perfect TimePiece Online

From classic designs to modern masterpieces, each watch in our collection is meticulously crafted



TimeBridge

to combine precision, beauty, and legacy. Elevate your style with a timepiece that tells more than time—it tells your story.

Our Brands



Contact Information



Our Location

41-Galle Road, Colombo 03



Call Us

112353787

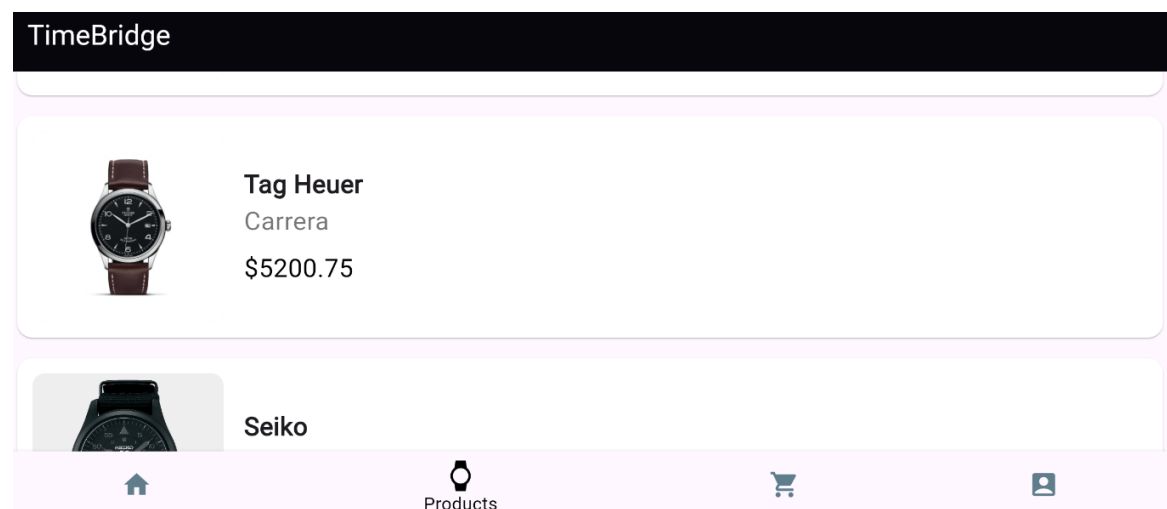
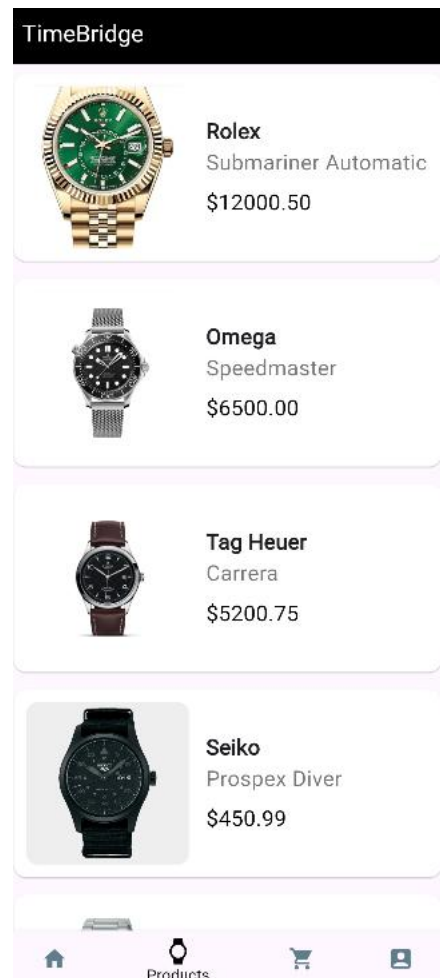


Email

info@TimeBridge.lk



Products Page



Product Detail Page

[←](#)

Product details



Tag Heuer - Carrera

\$5200.75

Diameter	43mm
----------	------

[←](#)

Product details

\$5200.75

Diameter	43mm
Type	Men
Material	Stainless Steel
Strap	Rubber Strap
Water Resistance	100m
Calibre	Heuer 02

 ADD TO CART

Cart Page

TimeBridge



Tag Heuer

Carrera



\$5200.75

Total
\$5200.75

PROCEED TO CHECKOUT



Cart



TimeBridge



Tag Heuer

Carrera

\$5200.75



Total

\$5200.75

PROCEED TO CHECKOUT



Cart



Checkout Page

← Checkout

Order Summary



Tag Heuer
Carrera
\$5200.75

Total: \$5200.75

ORDER NOW

← Checkout

Order Summary



Tag Heuer
Carrera
\$5200.75

Total: \$5200.75

ORDER NOW

Payment Page

← Payment

Total: \$5200.75

Account Holder Name

Card Number

Expiry Date



Confirm Payment

← Payment

Total: \$5200.75

Account Holder Name

Card Number

Expiry Date





Confirm Payment


Profile Page


TimeBridge

Account Details

 Sukitha Hettimudalige

 79/A, Niyadagala, Pannipititya

 suki@gmail.com

 752323543

 Log Out



Profile

Account Details

 Sukitha Hettimudalige

 79/A, Niyadagala, Pannipititya

 suki@gmail.com

 752323543

 Log Out



Profile