

Test Project

Module C Implement

Day 3 P.M.

Mobile Applications Development

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Introduction

X-French Travel plans to develop several apps to help people learn about French tourist attractions, history, and culture and promote the flourishing development of local tourism.

In the morning, the task is to develop an app about the Museum, and in the afternoon, an app about Lyon. The museum app serves as a powerful tool that bridges the gap between visitors and museums, enhancing the overall visiting experience. The Lyon app showcases the historical features of Lyon.

The designer has provided you with product prototypes. As a mobile application developer, your task is to develop the corresponding app in strict accordance with the requirements of the prototype and the videos.

Description of project and tasks

This development should be carried out in strict accordance with the prototype style and the requirements. The task is divided into two parts based on different equipment types:

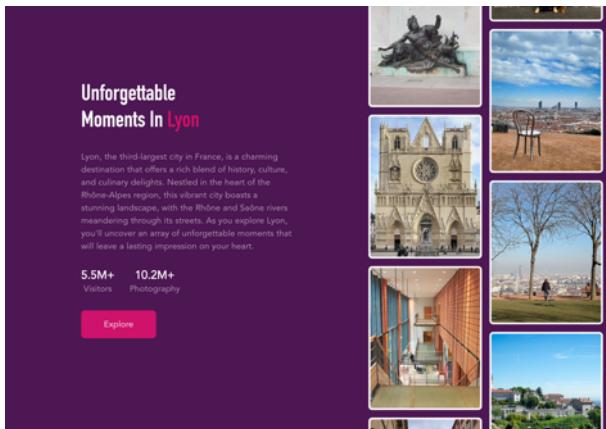
	PART	NAME	COMPETITION TIME	MARKING DEVICES
	A.M.	Implement (phone)	2.5 hours	Emulator: Pixel 2 or iPhone 8 Plus
✓	P.M.	Implement (tablet)	2.5 hours	Emulator: Pixel C or iPad pro (9.7-inch)

Below is an overview of the prototypes. Please refer to the **media-files** for details.

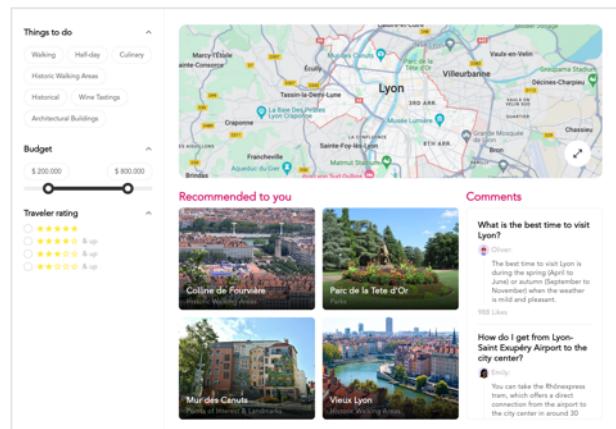


Home page

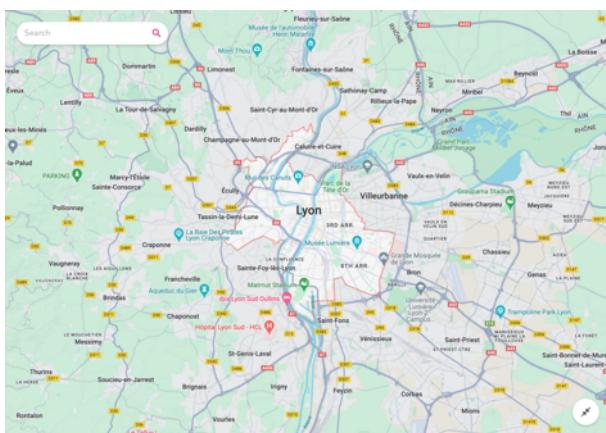
History page



Moments page



Recommendation page



Map page

General Demands

1. All animation effects should be developed to match those shown in the videos;
2. The appearance must strictly follow the details of the prototype. Functions not mentioned in the description do not need to be implemented;
3. Use the provided font consistently throughout the application.
4. Pages can be entirely changed by swiping up or down.

Pages Demands

Home page



Elements include:

1. Four letters of "LYON";
2. Five tilted lines over letters;
3. Four tilted lines below letters.

Functional requirements:

1. Use the provided image to cover the letter "O";
2. Place the four letters of "LYON" in different positions;
3. Arrange all the lines in different positions;
4. Implement the following animation for element appearance (refer to [animations/home.mp4](#)):
 - (a) At the start, only the purple background is visible on the page;
 - (b) When the page loads, animate the four letters of "LYON" sequentially with translate and fade-in animations, starting from the center of the page;
 - (c) Sequentially animate all lines with translate and fade-in animations;
 - (d) All element animations should stop at the final frame.

History page

History of Lyon

Lyon is the ancient **capital of Gaul** with a rich history of **more than 2000 years**.

Roman Lyon Medieval Lyon Renaissance Lyon Industrial Lyon Modern Lyon



Roman Lyon 1st century BC - 5th century AD

Lyon's history begins with the Roman Empire. Founded in 43 BC by Roman soldiers as Lugdunum, the city quickly became an important military and commercial center. Its strategic location at the confluence of the Rhône and Saône rivers made it a natural crossroads for trade and communication. Lugdunum was known for its impressive architecture, including an amphitheater and Roman baths. The city also became an early center of Christianity, hosting important Councils and housing the relics of many Christian martyrs.

Elements include

1. Title "History of Lyon";
2. Slogan texts "Lyon is the ancient capital of Gaul" and "with a rich history of more than 2000 years.";
3. Progress indicator in 5 parts, each part includes:
 - (a) Progress bar;
 - (b) Title of history stage.
4. History stage detail:
 - (a) Image;
 - (b) Title of history stage;
 - (c) Time range;
 - (d) Introduction text.

Functional requirements

1. Read the histories data from [data/histories.json](#);
2. Highlight the slogan texts "capital of Gaul" and "more than 2000 years.";
3. Implement the following animation for the progress indicator ([animations/history.mp4](#)):
 - (a) Highlight the current part of the indicator;
 - (b) Animate the progress bar for 3 seconds;
 - (c) Transition the progress indicator to the next stage;
 - (d) After reaching the final stage, loop back to the first stage and continue.

4. Implement an animation where images switch using a left-to-right clipping effect.

Moments page

Unforgettable Moments In Lyon

Lyon, the third-largest city in France, is a charming destination that offers a rich blend of history, culture, and culinary delights. Nestled in the heart of the Rhône-Alpes region, this vibrant city boasts a stunning landscape, with the Rhône and Saône rivers meandering through its streets. As you explore Lyon, you'll uncover an array of unforgettable moments that will leave a lasting impression on your heart.

5.5M+ **10.2M+**
Visitors Photography

[Explore](#)













Elements include:

1. Title "Unforgettable" and "Moments In Lyon";
2. Introduction text;
3. Statistic Data:
 - (a) Label "Visitors" with corresponded number;
 - (b) Label "Photography" with corresponded number.
4. "Explore" button;
5. 2 lists of photo galleries.

Functional requirements:

1. Implement the following animation for photo galleries (refer to [animations/moments.mp4](#)):
 - (a) The list on the left side plays an upward vertical scrolling animation;
 - (b) The list on the right side plays a downward vertical scrolling animation;
 - (c) Create a loop display, where the end of the sequence transitions smoothly back to the beginning;
 - (d) The playback of animations should be continuous at constant speed.

Recommendation page

Things to do

- Walking
- Half-day
- Culinary
- Historic Walking Areas
- Historical
- Wine Tastings
- Architectural Buildings

Budget

\$ 200.000 \$ 800.000

Traveler rating

- ★★★★★
- ★★★★★ & up
- ★★★★☆ & up
- ★★★☆☆ & up



Recommended to you



Colline de Fourvière
Historic Walking Areas



Parc de la Tête d'Or
Parks



Mur des Canuts
Points of Interest & Landmarks



Vieux Lyon
Historic Walking Areas

Comments

What is the best time to visit Lyon?

 Oliver:

The best time to visit Lyon is during the spring (April to June) or autumn (September to November) when the weather is mild and pleasant.

988 Likes

How do I get from Lyon-Saint Exupéry Airport to the city center?

 Emily:

You can take the Rhônexpress tram, which offers a direct connection from the airport to the city center in around 30

Elements include:

1. Sidebar:

(a) Things to do area:

- (i) Title "Things to do";
- (ii) Shrink/expand icon button;
- (iii) Tags group.

(b) Budget area:

- (i) Title "Budget";
- (ii) Shrink/expand icon button;
- (iii) Price range and controller.

(c) Traveler rating area:

- (i) Title "Traveler rating";
- (ii) Shrink/expand icon button;
- (iii) Rating selector with four items from 5 stars to 2 stars.

2. Map area:

- (a) Lyon map;
- (b) Expand icon button (↗).

3. Recommend area:

- (a) Title "Recommended to you";
- (b) 4 items of recommendation, each item includes:

- (i) Image;
- (ii) Title;
- (iii) Caption.

4. Comments area:

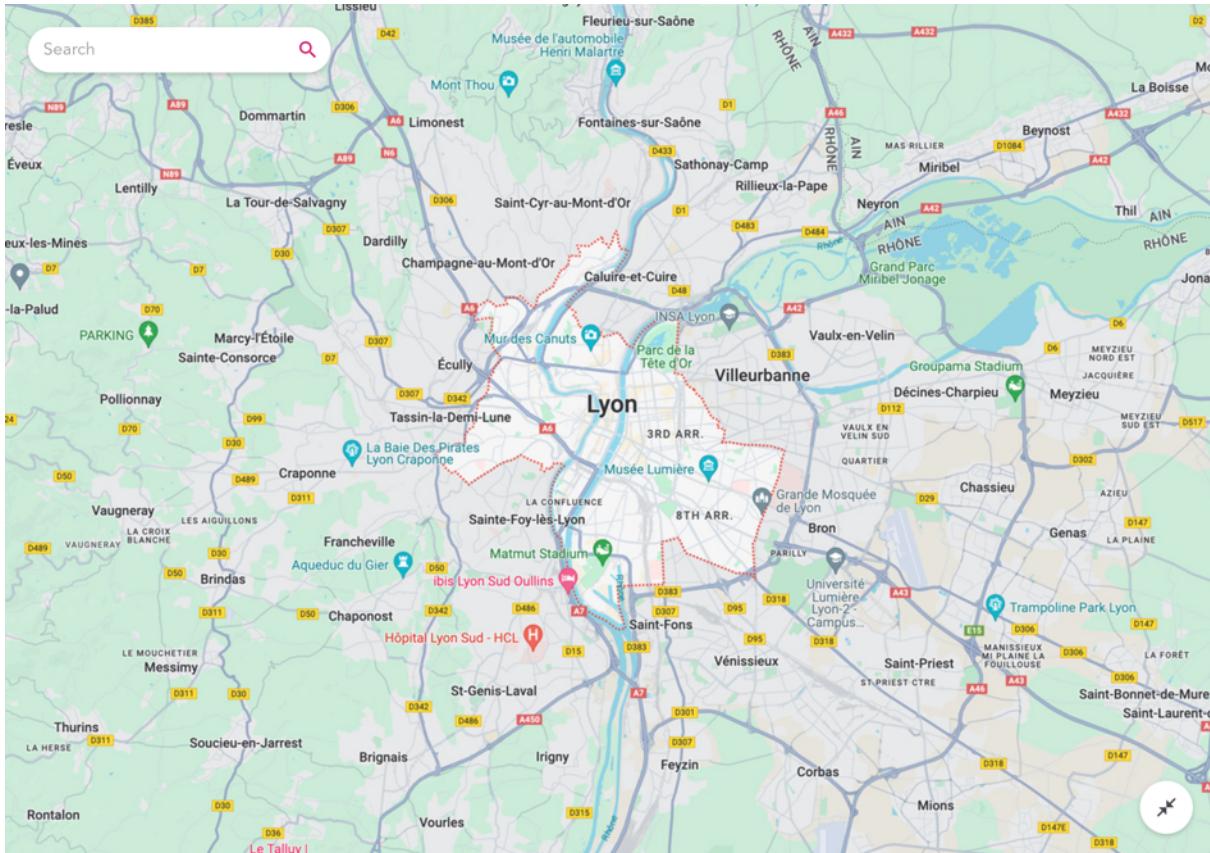
- (a) Title "Comments";
- (b) 5 items of comment, each item includes:

- (i) Question;
- (ii) User avatar;
- (iii) Username;
- (iv) Comment content;
- (v) Likes number.

Functional requirements:

1. Implement the shrink/expand function for the sidebar content as follows (refer to [animations/sidebar.mp4](#)):
 - (a) All contents are expanded by default;
 - (b) When clicking the shrink icon button for a content section:
 - (i) Hide the content, leaving only the title and icon button visible;
 - (ii) Change the shrink icon button to the expand icon button.
 - (c) When clicking the expand icon button for a content section:
 - (i) Show the content;
 - (ii) Change the expand icon button to the shrink icon button.
2. Click the expand icon button in the map area to navigate to the Map page;
3. Transition the Lyon map to the Map page in a flying animation (refer to [animations/map.mp4](#));
4. Recommended images should have a black gradient at the bottom;
5. Read the comments data from [data/comments.json](#);
6. Allow users to scroll up and down to view all comments.

Map page



Elements include:

1. Background map;
2. Search input box:
 - (a) Hint text "Search";
 - (b) Search icon.

3. Shrink icon button ().

Functional requirements:

1. Use the provided map as the background, covering the entire screen;
2. Implement the following animation for the search input box (refer to [animations/search.mp4](#)):
 - (a) When the search box is focused, display the autofill dialog;
 - (b) The autofill dialog appears with given data in an upward movement and fade-in animation;
 - (c) Adjust the bottom border-radius of the search input box as the autofill dialog appears;
 - (d) The autofill dialog should disappear when the search box loses focus.
3. Click the shrink icon button to return to the Recommendation page.

Instructions to the Competitor

1. Please create the project with correct package name (Android) / Organization Identifier (iOS). The naming convention is edu.ws2024.cXX.pm;
2. You should save the project in the folder XX_Module_C_PM;
3. You should rename the generated apk (Android) / app (iOS) file as XX_Module_C_PM.apk (Android) / XX_Module_C_PM.app (iOS) and save it in the root of the XX_Module_C_PM folder;
4. The whole XX_Module_C_PM folder should be pushed to the provided remote Git repository in time;
5. Note: "XX" refers to your workstation code.