Test Project

Module B1 - Design

Mobile Applications Development

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Introduction

"5,000 Years of China" is a mobile application themed around the exploration of Chinese civilization. In this project, you are required to use Figma as the design tool to create a high-fidelity prototype with complete interaction logic, based on the provided wireframes and interaction specifications.

All requirement stories, images, and other materials in this Test Project are fictional, for competition use only, and have no real-world counterpart.

The product manager has provided you with product wireframes. As a developer of the mobile app, you need to redesign the wireframes to provide the development engineer with a fig file.

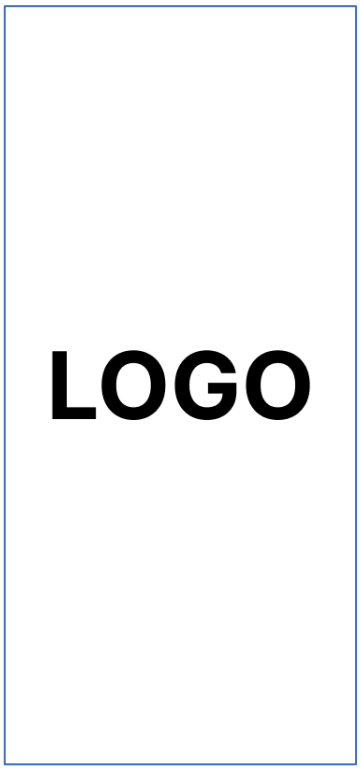
Description of project and tasks

This design task is divided into two parts according to different target device types:

	PART	NAME	COMPETITION TIME	MARKING DEVICES
√	MB1	Design (phone)	2.5 hours	Figma (in the preview) 375*812
	MB2	Design (tablet)	2.5 hours	Figma (in the preview) 1280*800

The following is the original wireframes. Please check the media-files folder for details:

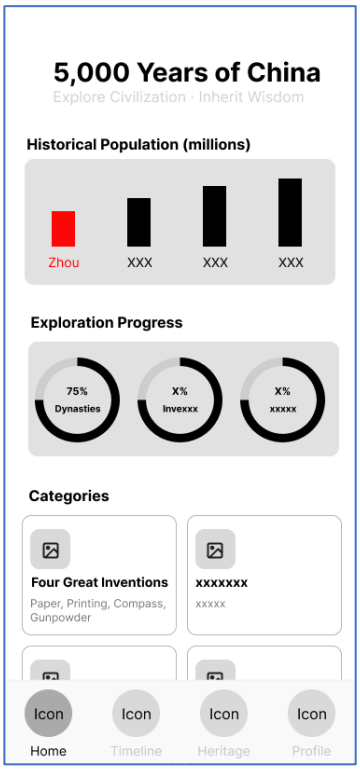
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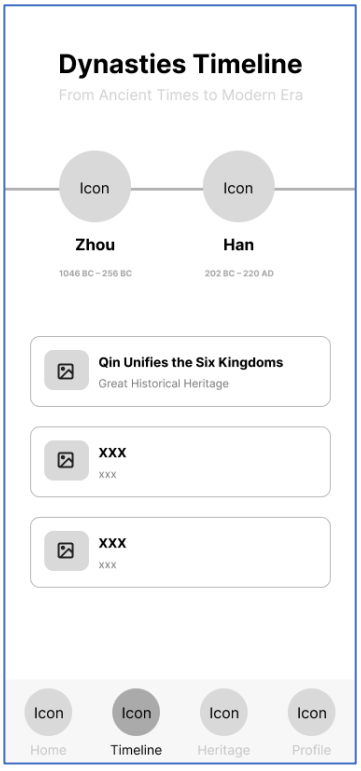
Splash Page



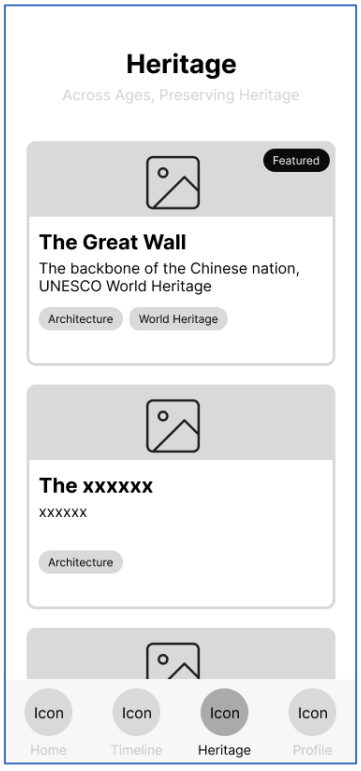
Welcome Page



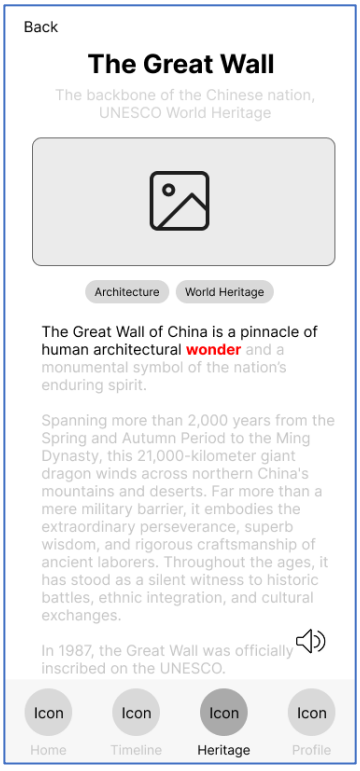
Home Page



Timeline Page

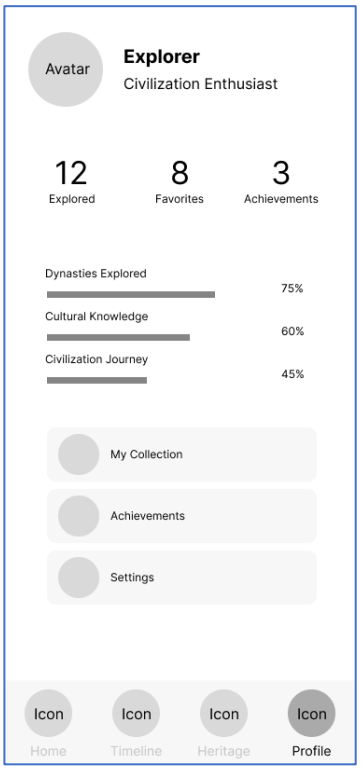


Heritage Page



Heritage Detail Page

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Profile Page

General Demands

1. You can add additional reasonable elements and interactions to support your design;
2. You don't have to use all data provided in the media-files;
3. You can modify the text provided in the wireframes or media-files;
4. You can modify the icon provided in the wireframes;
5. Design improvements should be applied to all pages;
6. Bottom navigation:

   (a) The bottom navigation bar should contain four tabs: Home, Timeline, Heritage and Profile;
   (b) You need to design or use a suitable icon for each navigation tab;
   (c) Tapping on the navigation tab can open the corresponding page;

7. You need to design two complete theme sets: Light Theme and Dark Theme.

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Pages Demands

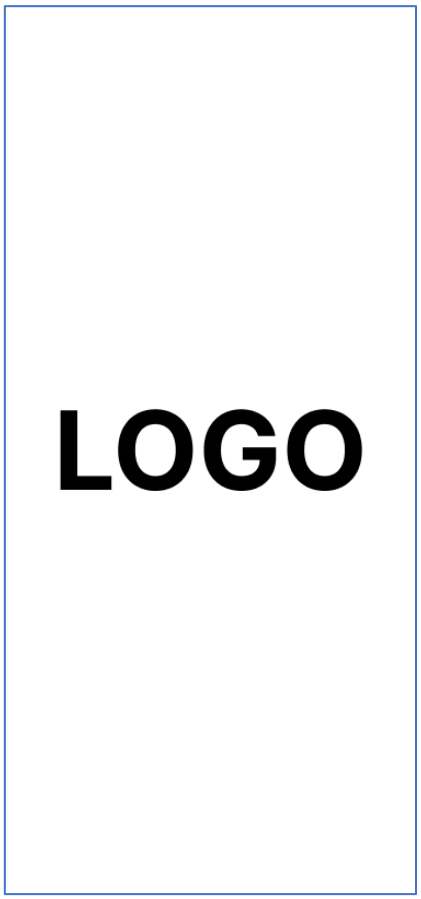
1. Splash Page

Elements at least include

1. Logo

Design requirements

1. The logo appears with an animation;
2. Automatically navigates to the Welcome page after three (3) seconds.



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2. Welcome Page

Elements at least include

1. Logo
2. Text "5,000 Years CHINESE CIVILIZATION"
3. Background images
4. Page indicator: 3 dots
5. Button "Explore"

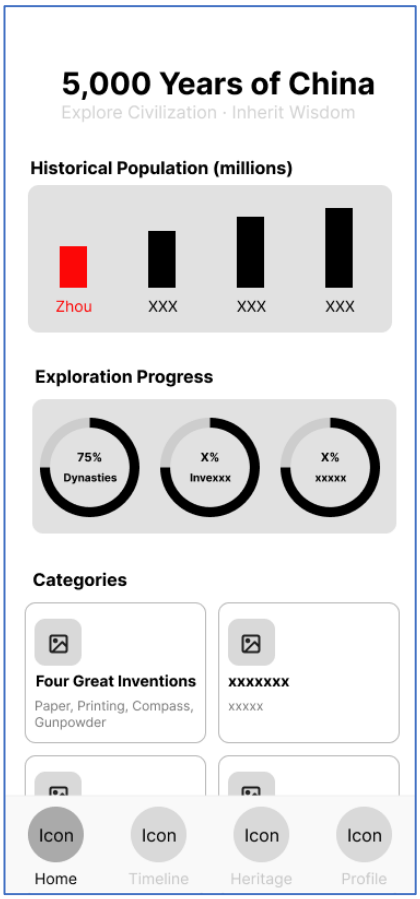
Design requirements

1. A smooth transition animation (scaling-down and repositioning) is applied to the logo when navigating from the Splash Page to this page;
2. The text "5,000 Years CHINESE CIVILIZATION" appears with an animation;
3. Design or use three background images. Switch the background image when the user swipes the screen;
4. The dot indicator corresponding to the current page is highlighted when the background image switches;
5. Tap the "Explore" button to navigate to the Home page.



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3. Home Page



Elements at least include

1. Title "5,000 Years of China"
2. Subtitle "Explore Civilization · Inherit Wisdom"
3. Historical Population
   (a) Text "Historical Population (millions)"
   (b) Bar chart
4. Exploration Progress
   (a) Text "Exploration Progress"
   (b) Three circular progress bars
5. Categories, each card includes:
   (a) Image
   (b) Title
   (c) Description
6. Bottom navigation

Design requirements

1. Historical Population section displays a bar chart showing the population data of four dynasties (unit: millions):
   (a) Zhou: 10
   (b) Han: 60
   (c) Tang: 90
   (d) Qing: 400
2. When entering this page, display an animation where chart bars rise sequentially from left to right;
3. The first dynasty is selected by default. User can switch the selection state by tapping on other dynasties;
4. Exploration Progress section correctly displays three circular progress bars:
   (a) Zhou
      (i) 30% Dynasties
      (ii) 40% Inventions
      (iii) 50% Ideologies
   (b) Han
      (i) 35% Dynasties
      (ii) 50% Inventions
      (iii) 55% Ideologies
   (c) Tang
      (i) 50% Dynasties
      (ii) 65% Inventions
      (iii) 60% Ideologies
   (d) Qing
      (i) 75% Dynasties
      (ii) 60% Inventions

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(iii) 40% Ideologies

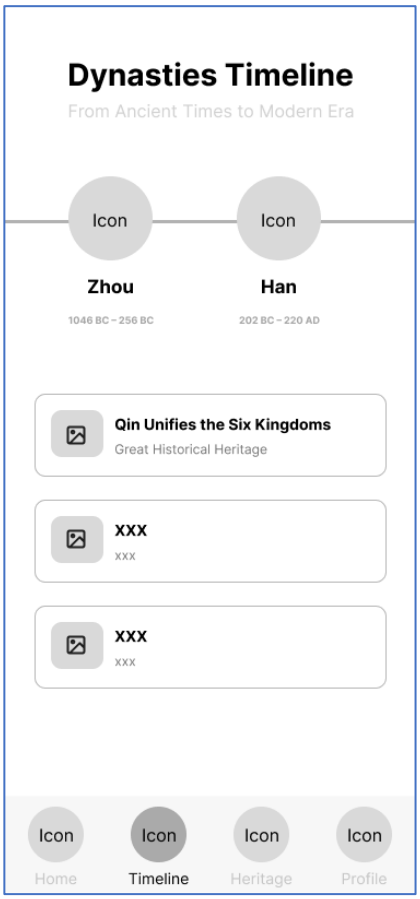
1. When a dynasty item is tapped in the Historical Population chart, replay the circular progress indicator animation, updating both the number and the circular progress from 0% to the current value;
2. Categories data:

   (a) Four Great Inventions
   Paper, Printing, Compass, Gunpowder
   (b) Ideology and Philosophy
   Ancient ideas, wisdom and ways of thinking
   (c) Culture and Art
   Life, traditions, music, painting and literature
   (d) Architectural Wonder
   Amazing buildings with great history and skills

3. Design or use an image for each category.

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4. Timeline Page



Elements at least include

1. Title "Dynasties Timeline"
2. Subtitle "From Ancient Times to Modern Era"
3. Horizontal timeline, each dynasty includes:

   (a) Dynasty icon
   (b) Dynasty name
   (c) Time period

4. Historical card list, each card includes:

   (a) Image
   (b) Title
   (c) Description

5. Bottom navigation

Design requirements

1. Design a draggable horizontal timeline with four connected dynasty nodes. The dynasty data is as follows:

   (a) Zhou: 1046 BC – 256 BC
   (b) Han: 202 BC – 220 AD
   (c) Tang: 618 – 907 AD
   (d) Qing: 1616 – 1912 AD

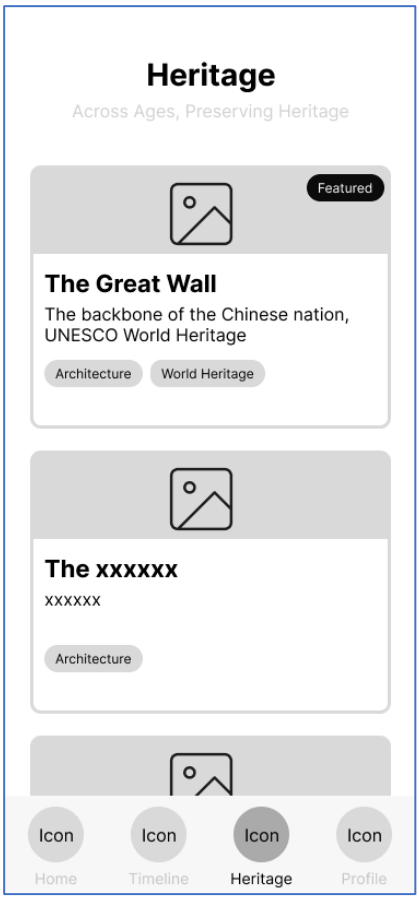
2. Design or use an icon for each dynasty;
3. History card list data:

   (a) Qin Unifies the Six Kingdoms
   Great Historical Heritage
   (b) Emperor Wu Expands the Territory
   Prosperity of the Han Civilization
   (c) The Rise of the Silk Road
   Bridge of Civilization Exchange

4. Design or use an image for each historical card.

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5. Heritage Page



Elements at least include

1. Title "Heritage"
2. Subtitle "Across Ages, Preserving Heritage"
3. Card list, each card includes:
4. Image area at the top

   (a) Title
   (b) Description
   (c) Tags

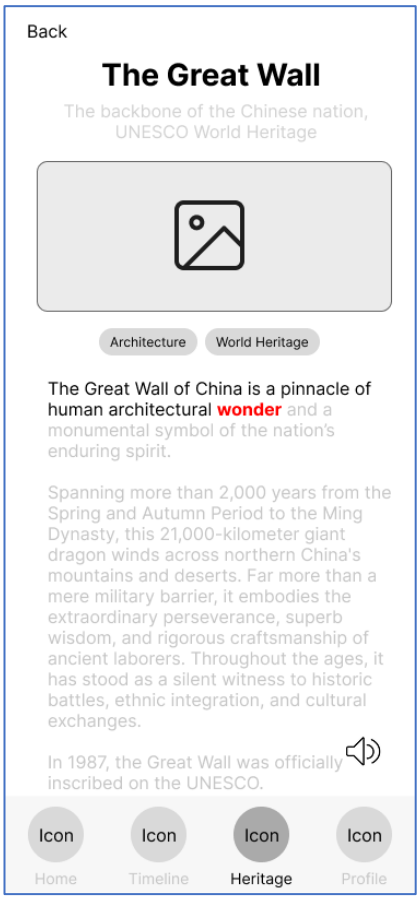
5. Badge: Featured
6. Bottom navigation

Design requirements

1. The data source for the Heritage card list: *data/data_heritage.json*;
2. At least ~~three~~ four distinct groups of card data are used. Scroll vertically to view more heritage cards;
3. Tap the card titled "The Great Wall" to navigate to the Heritage Detail Page.

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6. Heritage Detail Page



Elements at least include

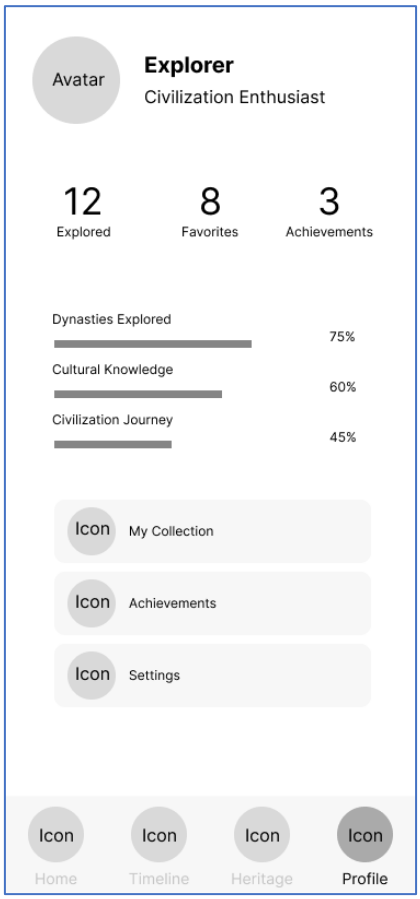
1. Title "The Great Wall"
2. Subtitle "The backbone of the Chinese nation, UNESCO World Heritage"
3. Tags "Architecture" / "World Heritage"
4. Image
5. Description Text
6. Audio button
7. Back button
8. Bottom navigation

Design requirements

1. The text data source: *data/data_heritage.json*;
2. Display a corresponding image in the Image area;
3. Tap the audio button to play a simulated read-aloud animation. This function is only available under EN mode. In the first paragraph of the description text, each word shall be highlighted sequentially. The currently read word shall be highlighted in red and bold;
4. Tap the back button to return to the Heritage Page;
5. Add a Share button on the page. Tap the Share button to pop up a horizontal banner-style share card, including title, thumbnail image and text summary.

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7. Profile Page



Elements at least include

1. Avatar
2. Title "Explorer"
3. Subtitle "Civilization Enthusiast"
4. Statistics card:
   (a) Explored (12)
   (b) Favorites (8)
   (c) Achievements (3)
5. Three progress bars:
   (a) Dynasties Explored 75%
   (b) Cultural Knowledge 60%
   (c) Civilization Journey 45%
6. Function menu list:
   (a) My Collection
   (b) Achievements
   (c) Settings
7. Bottom navigation

Design requirements:

1. Design or use an icon for each function menu list item;
2. When Settings is tapped in the functional menu, display a popup dialog with an animation effect:
   (a) The dialog shall include two toggle switches:
      (i) Theme switch;
      (ii) Language switch;
   (b) Theme switch shall allow users to switch between Light and Dark modes;
   (c) Language switch shall allow users to switch between EN and CN;
3. When Light mode is enabled, all pages shall be displayed in Light theme;
4. When Dark mode is enabled, all pages shall be displayed in Dark theme;
5. When EN mode is selected, the cards on the Heritage Page and the data on the Heritage Detail Page are displayed in English;
6. When CN mode is selected, the cards on the Heritage Page and the data on the Heritage Detail Page are displayed in Chinese (*data/data_heritage_cn.json*).

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Instructions to the Competitor

1. You need to save the file as XX_MB1.fig in the XX_MB1 folder;
2. The whole XX_MB1 folder should be pushed to provided remote Git repository in time;
3. Note: "XX" refers to your workstation code.

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