

Assignment for Android Developer

Orufy Technologies Pvt. Ltd.

Assignment (2-Day Task)

Build a simple Android application with **three native screens**. The goal is to evaluate your understanding of UI development, navigation, WebView usage, and local data storage.

Language: Kotlin

1. Home Screen

UI Components

- **Top App Bar:** History button (placed in the App Bar)
- **Input Field:** Allows the user to enter a valid URL
- **Open Button:** Used to open the entered URL in a WebView
- **Carousel (Pager):** 3 images

Functionality

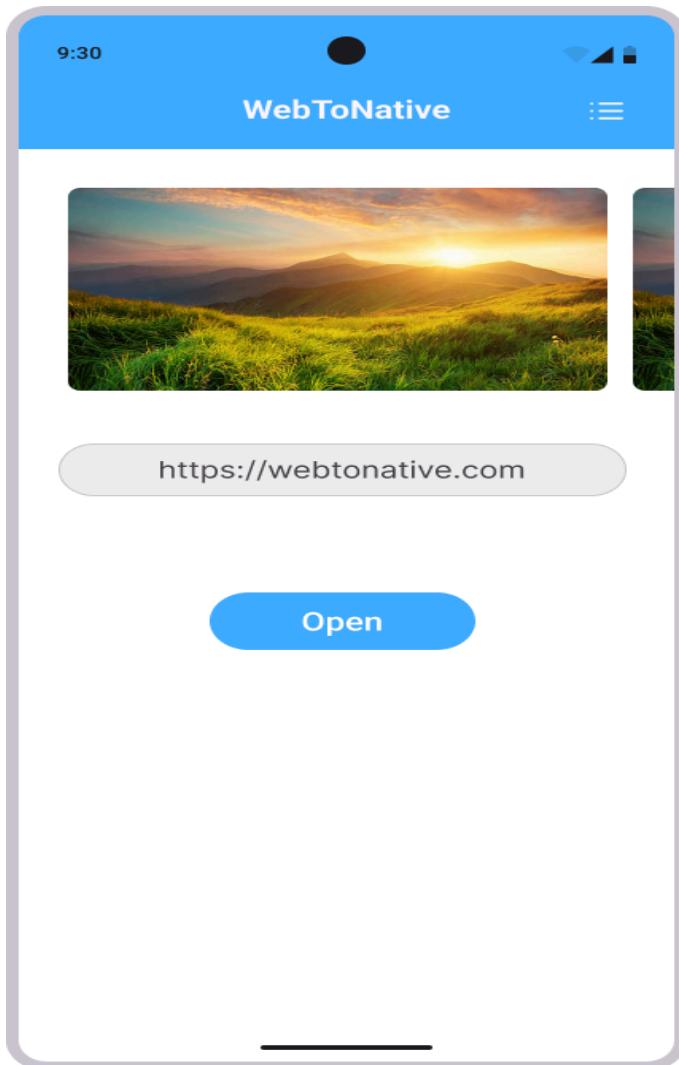
- The user enters a URL in the input field.
- Carousel rules:
 - UI-only (no interaction, no navigation)
 - 3 static slides
 - Each slide has an **Image**
- Dot indicators required
- Save every opened URL with a timestamp into local storage.
- On tapping the **Open** button:
 - Navigate to the **WebView Screen**
 - Pass the entered URL to the WebView Screen.
- On tapping the **History** button in the Top App Bar:
 - Navigate to the **History Screen**.

Edge Cases

- **Empty Input**
 - If the user taps **Open** without entering a URL:
 - Show a validation message (Toast / Snackbar / Inline error).
 - Do not navigate to the WebView Screen.
- **Invalid URL Format**
 - If the entered text is not a valid URL (e.g., `google`, `abc123`, `http:/test`):
 - Show an error message: “Please enter a valid URL.”
 - Prevent navigation to the WebView Screen.
 - Automatically prepend `https://` if the user enters a domain without a scheme (optional bonus).
- **Leading / Trailing Spaces**
 - Trim spaces before validating the URL.

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2. WebView Screen

UI Components

- **Top App Bar**
 - Back button
 - Close button
- **URL Display Field**
 - Displays the currently loaded webpage URL
- **WebView**
 - Loads and displays the provided URL

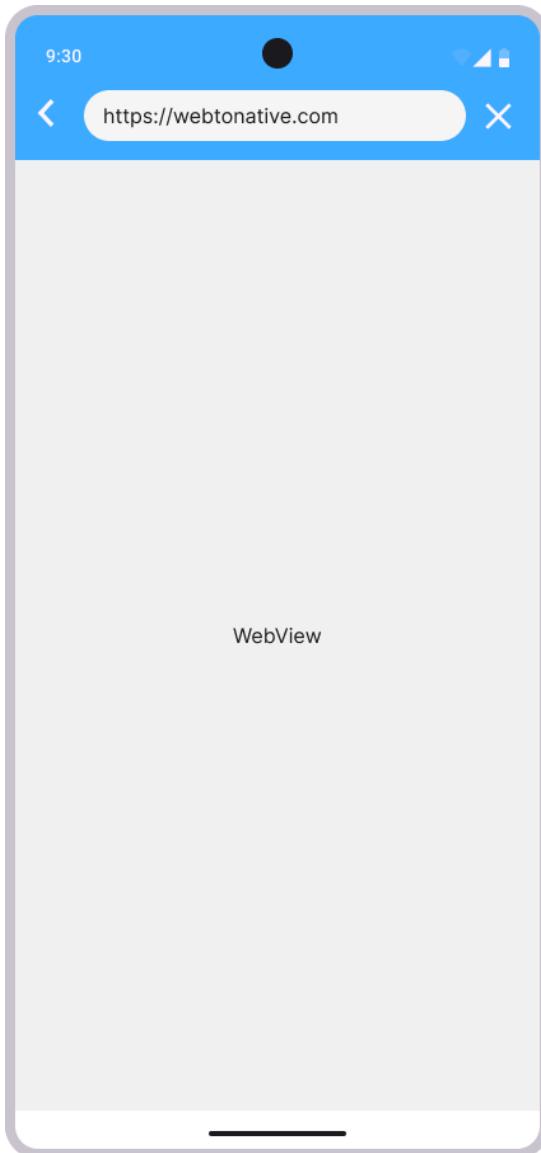
Functionality

- Load the URL received from the Home Screen inside the WebView.
- **Back Button behavior:**
 - Navigates back to the Home Screen.
 - The Home Screen input field should retain the last opened URL.

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- **Close Button behavior:**
 - Navigates back to the Home Screen.
 - The Home Screen input field should be cleared.
- The URL display field must update as the WebView navigates to new pages.



3. History Screen

UI Components

- **Top App Bar**
 - Back button
- **List View / RecyclerView**
 - Displays all stored URLs along with their timestamps
- **Clear / Delete Button**
- **Upload Button**

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Functionality

- Fetch all stored URLs from the local database and display them in a list with timestamps.
- **Back Button:**
 - Navigates back to the previous screen.
- **Clear / Delete Button:**
 - Deletes all stored URLs from local storage.
- **Upload Button:**
 - Uploads all stored URL data to an API endpoint.
 - Use Beeceptor (<https://beeceptor.com/>) to create and use a dummy API endpoint.



Submission:

1. The assignment must be completed within a timeframe of 2 days.
2. Kindly share the drive for the updated CV, which includes a portfolio (public access)
3. *Please share the GitHub repository link for the assignment.*