

# 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

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### 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

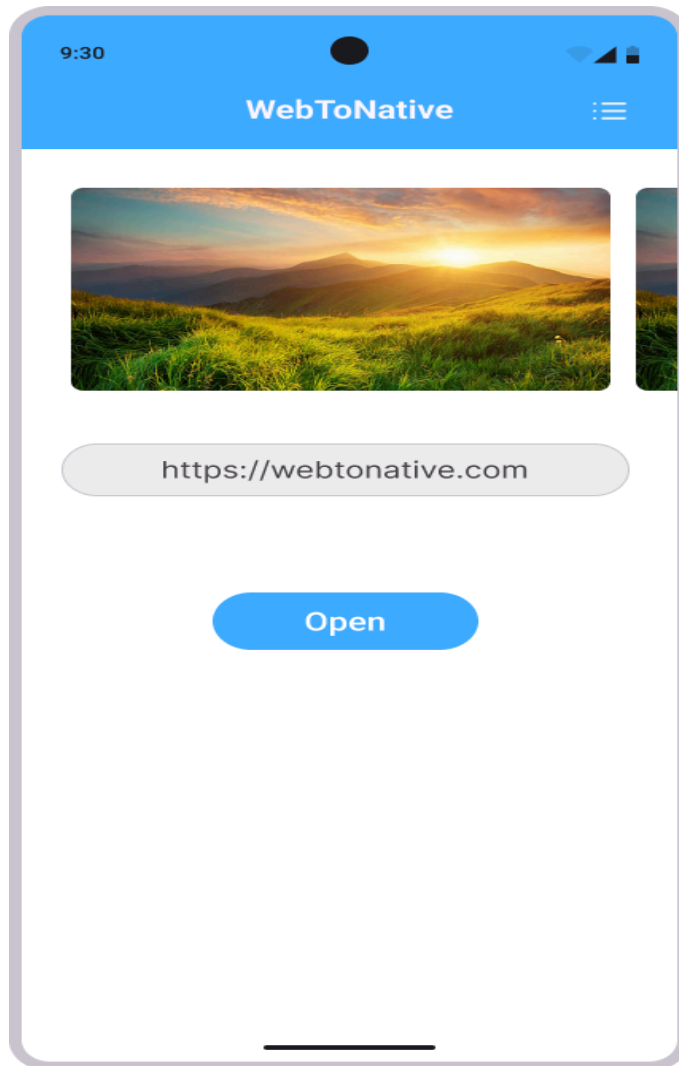
- The user enters a URL in the input field.
- Carousel rules:
  - UI-only (no interaction, no navigation)
  - 3 static slides
  - Each slide has an **Image**
- Dot indicators required
- Save every opened URL with a timestamp into local storage.
- On tapping the **Open** button:
  - Navigate to the **WebView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

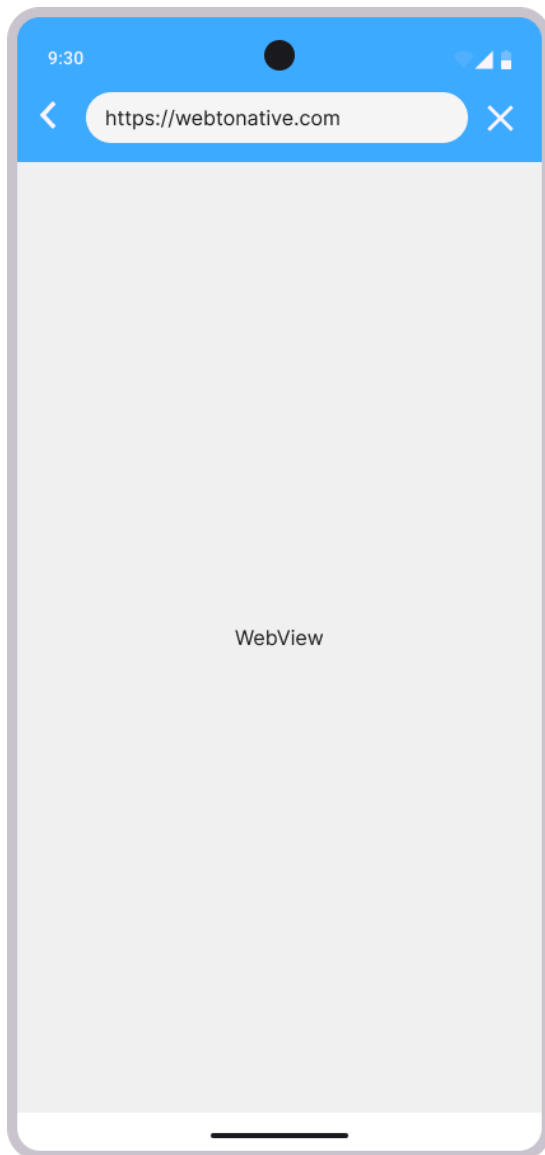
### Functionality

- 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.*