# Al Usage Report – Using Gemini via Vibe Coding

This report documents how the Gemini AI tool was utilized through Vibe Coding during the development of a React Native project. The project aimed to develop a fully functional product listing app that displays data from a public API, enables search and filtering, manages favorite items with local persistence, and includes detailed product screens.

### 1. Tools Used and Why (5 Marks)

I used **Gemini (via Vibe Coding)** to assist with React Native code generation, optimization, and UI improvement. Gemini helped create well-structured functional components, implement efficient state handling using React Hooks, and suggested responsive layouts using Flexbox.

## 2. Actual Prompts and Outputs (10 Marks)

## **Prompt Example 1:**

"Generate a React Native FlatList to display product cards using data from https://fakestoreapi.com/"

#### **Gemini's Output:**

Gemini generated a component using *fetch()* API for data retrieval and displayed the products in a FlatList. Each product card included an image, title, and price with basic styling.

#### **Prompt Example 2:**

"Add a search bar to filter products by name and category."

#### **Gemini's Output:**

Gemini created an efficient filtering mechanism using *useState* and *useEffect* to dynamically filter results based on search input.

## 3. How I Improved, Modified, or Verified Al-generated Code (10 Marks)

I modified Gemini's code to improve reusability by separating UI components such as ProductCard and SearchBar. I also added local storage functionality using *AsyncStorage* for favorites persistence. Testing was performed on both Android and iOS devices to verify the app's layout, functionality, and responsiveness.

## 4. Screenshot Evidence (5 Marks Bonus)

Below is the actual screenshot showing Gemini's assistance within Vibe Coding, where prompts and Al-generated code responses were used during the project.

