**Design Specification: Front Page of the Parking Mobile Friendly Website.**

**1. Overview**

This document outlines the design specifications for the front page of the parking app. The page is divided into two main sections: a larger map view and a smaller search and navigation panel.

**2. Layout and Dimensions**

* **Map View:**
  + Occupies 65% of the screen width.
  + Displays a map of the city with real-time traffic and parking availability information.
  + Zooms in and out to display different levels of detail.
  + Add pins for the destination location and starting location.
  + Shows markers for available parking spots.
* **Search and Navigation Panel:**
  + Occupies 35% of the screen width.
  + Located on the right side of the screen.
  + Contains the following elements:
    - **Filter Bar:**
      * **Cost Filter:** A dropdown menu to filter by cost range.
      * **Distance-To Filter:** A slider to filter by distance to a specific location.
      * **Show GPS Location Button:** A toggle button to enable/disable display of GPS location data.
    - **Location Details:**
      * **Address:** Displays the address of the selected parking spot.
      * **Time to Stampede Ground:** Displays the estimated travel time to the Stampede Ground.
      * **Available Time:** Displays the duration for which the parking spot is available.
    - **Parking Spot Options:**
      * Four rectangular, rounded-corner boxes displaying four different parking spot options.
      * Each box shows a brief description of the parking spot, including address and availability.
    - **Route Details:**
      * **Cost:** Displays the estimated cost of parking.
      * **Time to and From Parking Spot:** Displays the estimated travel time to and from the parking spot.
      * **Longitude and Latitude:** Displays the GPS coordinates of the parking spot.
      * **Address:** Displays the address of the parking spot.
    - **Action Buttons:**
      * **Select Button:** Selects the current parking spot.
      * **Save Button:** Saves the selected parking spot to the favorites list.

**3. User Interface Elements**

* **Colors:**
  + Use a consistent color palette throughout the app.
  + Use contrasting colors for text and background to ensure readability.
* **Typography:**
  + Use clear and legible fonts.
  + Use appropriate font sizes for different text elements.
* **Icons:**
  + Use simple and recognizable icons for buttons and other elements.
* **Button Styles:**
  + Use consistent button styles throughout the app.
  + Use clear and concise labels for buttons.

**4. User Interaction**

* **Map Interaction:**
  + Users can zoom in and out of the map.
  + Users can tap on markers to view more information about a parking spot.
* **Search and Navigation Panel Interaction:**
  + Users can select filters to narrow down the search results.
  + Users can tap on parking spot options to view more details.
  + Users can tap on the "Select" button to choose a parking spot.
  + Users can tap on the "Save" button to save a parking spot to the favorites list.

**5. Data Storage**

* **Favorites List:**
  + Store up to 5 favorite parking spots locally on the device.
  + Use a simple data structure (e.g., an array) to store the favorites.
  + Implement a FIFO (First-In-First-Out) strategy to remove the oldest favorite when the list reaches its capacity.

**Note:** This design specification provides a high-level overview of the app's front page. Detailed design specifications for individual UI elements and user interactions may be required for a more comprehensive design.