

**The Problem:** Some new touchscreen parking meters are being installed throughout your city. There is one meter for every 6 parking spots. Design the touchscreen interface so that drivers can pay for their parking spot for a certain duration, and parking attendants can give tickets to cars who do not pay, or whose parking has expired. The machine has a single touchscreen. There isn't any kind of pinch and zoom, hard press or advanced touchscreen functionality supported. The parking meters can accept credit card payments but are not otherwise connected to the internet and are not Bluetooth enabled.

**The Process:** Started the project by doing a rough sketch on my sketch pad with a pencil. I had to put some things into consideration. This includes making the process as simple as possible, user friendly and takes very little amount of time to complete. When satisfied with my final sketch, I moved on to my laptop to create the wireframes.

**My Solution:** There's a credit card symbol and next to it is a "Square" symbol, this represents a card reader that allows the device to process payments on offline mode i.e. without internet connection. The device goes according to the following steps:

Step 1: Being process, and there's also an option on the top right to select a different language. On the machine there's an input slot to swipe or input your credit card, an input slot to insert coins and an output port to print out receipts for the user. A text on the bottom left to indicate the price for parking per hour.

Step 2: This allows the user to select the parking slot they occupy, and the spaces are being represented by numbers. On the top left there's a button to navigate to the previous page.

Step 3: After selecting the occupied slot, users are requested to select the time period for parking. This shows the present time and the expiration time depending on how many hours the user selects.

Step 4: This requires the user to make payment and shows the total amount to be paid. It indicates where to make payments using arrows.

Step 5: Payment is successful, and it automatically prints a receipt for the user with details. Receipts can be placed in their car by users.

**Reflection:** It was a little challenging when thinking on how to indicate how the machine processes offline payments. So, did a little research on card readers and was able to come up with a solution. If doing this a second time I would make the time visible on all screen.

