**Work to be completed:**

Software:

|  |  |
| --- | --- |
| ITEM | Description |
| User Login | Allow Users to Login with specific Username and password |
| Store Password/Username | Create and encrypt storage for username and password login information. |
| Password Recognition and Verification | Allow users to change their passwords and use those passwords to login |
| Protect Password and Username Inputs from SQL Injection/buffer Overflow attacks | Optional: Protect the database and other inputs from common attacks such as SQL Injection and Buffer Overflow |
| Notifications and Updates | Allow for only authorized individuals to send notifications while only specific users receive those notifications |
| Bus Information Display | Display only the information on the bus(ses) the current user has access to |
| Expected Arrival Time of Bus | As part of bus information display, calculate and display an estimated arrival time based off previous travel times and current time |
| Update Database | Update Firebase account to allow for greater data transfer or find another way to store data for use. |
| Raspberry Pi | Update code on Pi to start/stop at a specific time or lack of GPS data change. Focus on preventing unnecessary data from being sent.  (possible) Store data on pi for backup and testing purposes |