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|  | **Description** | **Estimated Days** |
| **User story 1:**  Start Up Process. | The user starts the pump.  Pump runs through checks.(Battery, Sensor, Pump, Delivery, Needle Assembly, Insulin reservoir) | 5 Days |
| **User story 2:**  User wants to see the blood sugar level. | Blood sugar level is displayed on screen, updated every 10 minutes. | 2 Days |
| **User story 3:**  Pump should deliver the correct amount of insulin. | The pump calculated the amount to be delivered according to the current sugar reading, measured by the sensor.  Sugar Low = No Insulin  Sugar High = Insulin  If within the safe zone, insulin is only to be delivered if sugar level is rising.  Taking into account for Cumulative dose per day and Single injection limits. | 5 Days |
| **User story 4:**  User wants to be able to see the Dosage History. | The pump is to display the last delivery of insulin. | 2 Days |
| **User story 5:**  The user changes the Insulin reservoir. | The Insulin reservoir is malfunctioning or is empty and needs to be changed or re-seated. | 3 Days |
| **User story 6:**  The cumulative dose of insulin delivered, stored in Database and reset. | At the end of the 24hr period, (00:00:00) the cumulative dose is stored in the Database and reset. | 3 Days |
| **User story 7:**  The Dosages throughout the day are stored in the Database. | Each dosage is stored in a Database along with a Timestamp and Current sugar level. | 4 Days |
| **User story 8:**  The user switches to manual mode. | The user is able to switch the device to manual. | 2 Days |
| **User story 9:**  In manual mode the user enters Carbs and Insulin. | The user is prompted to enter the Carbs and Insulin levels so that the pump can deliver the correct dosage. | 4 Days |
| **User story 10:**  The user needs to change clock time. |  | 2 Days |
| **User story 11:**  Device runs Battery check | Checks the voltage of the battery.  Less than 0.5v requires replacement. | 2 Days |
| **User story 12:**  Device runs pump sensor failure check. | Checks the sugar sensor is operational. | 2 Days |
| **User story 13:**  Device runs pump failure check. | Checks the pump is operational. | 2 Days |
| **User story 14:**  Device runs delivery check. | Checks if the delivery has been successful.  Delivery needle may be blocked or incorrectly inserted. | 2 Days |
| **User story 15:**  Device checks for Needle assembly. | Checks if the needle assembly has been installed correctly. | 2 Days |
| **User story 16:**  Device checks for insulin reservoir. | Checks if the reservoir has been installed correctly. | 2 Days |
| **User story 17:**  Device checks insulin level. | Checks the capacity of the insulin reservoir. | 2 Days |
| **User story 18:**  Device runs through all checks systematically. | Device runs through all checks on the pump and alerts user if any errors have occurred. | 1 Days |

Days: 36 – 108 (min-max)

Total estimated: 47 Days