| | 2018 | | | | |
|---|---|---|---|---|---|
| | March | April | May | June | July |
| **1. Analysis of proposed system** | | | | | |
| 1.1. Studying the problem, research and selection of possible solutions | **10 h** | | | | |
| 1.2. Studying RFID technology | **10 h** | | | | |
| 1.3. Studying NativeScript technology | **10 h** | | | | |
| 1.4. Studying MongoDB best practices | | **10 h** | | | |
| 1.5. Studying Socket.IO technology | | **10 h** | | | |
| 1.6. Learning how to connect different devices in a network | | **10 h** | | | |
| **2. Implementation** | | | | | |
| 2.1. Programming mobile application with NativeScript | **40 h** | | | | |
| 2.2. Creating a MongoDB database | | **5 h** | | | |
| 2.3. Connect mobile application with MongoDB server (HTTP request/response) | | **10 h** | | | |
| 2.4. Connect mobile application with MongoDB server (Socket.IO) | | | **10 h** | | |
| 2.5. Connect Matlab program to MongoDB database | | | **10 h** | | |
| 2.6. Establish a LAN between all components (Laptops, RFID reader) | | | **10 h** | | |
| 2.7. Establish a WIFI between MongoDB database and smartphones/tables | | | **5 h** | | |
| **3. System testing** | | | | | |
| 3.1. Device testing | | | **30 h** | | |
| 3.2. Functional tests | | | **20 h** | | |
| 3.3. Regression tests<br><br>3.3.1. Real time testing | | | | **20 h** | |
| 3.4. Tests in HUCA | | | | **10 h** | |
| **4. Analysis of results** | | | | | |
| 4.1. Conclusions and analysis of proposed system | | | | | **20 h** |
| **5. Elaboration of document** | | **10 h** | **10 h** | **15 h** | **20 h** |