**Preliminary Tech requirements –** *items in italic are bonus/extra*

**House**

1. Micropython or Arduino C

**Web App**

1. Javascript framework must be used
2. *Allow users to log in via web app. This is counted as equivalent to RFID login*

**API**

1. C# API must be used is API layer is created separately to Web App
2. *C# API required for extra/bonus implementation*

**Database**

1. ERD must be created
2. Relational database required

**Project Management**

1. User stories/requirements must be logged/tracked in a project management tool
2. Tasks must show date started and completed as a bare minimum
3. All code is to be version controlled via GitHub
4. Must be deployed to an online environment with CI/CD capabilities
5. MQTT must be used for communication with the house (SSL/TLS not required)
6. Mock-ups/Wireframes need to be attached