

October 1st, 2024



Project Charter: Smart Home

Groupe 5 :

Elie Kheirallah

Farouk Ait Oujkal

Jamal Assou

Alain M. Nitunga

Léo Calvo Castaño

Project Overview

Project Objective: Develop a cloud-based IoT system to control home appliances through a web app.



Key Features:

- | | | |
|--|--|--|
| • Real-time control of devices via Azure IoT Hub | • Web app with real-time updates using SignalR | • Backend services using Azure Functions in C# |
|--|--|--|

Project Scope

Scope of Work:

- Development of a web application using Angular and SignalR for real-time device control
- Creation of serverless backend services using Azure Functions in C#
- Integration with Azure IoT Hub for device management
- User management and authentication

Exclusions:

- No responsibility for the IoT hardware board setup

Stakeholders



- **Developers:**
Elie Kheirallah
Farouk Ait Oujkal
Jamal Assou
Alain Nitunga
Léo Calvo Castaño



- **Product Owner:**
Ghassam Farah



- **Scrum Master:**
SCHUERMANS Mathieu
LEMNIAI Soufyan



- **Notetaker:**
Léo Calvo Castaño



- **Leader:**
Farouk Ait Oujkal



- **Facilitator:**
Alain Nitunga



Project Risks and Mitigation



IDENTIFIED RISKS:



- UNEXPECTED TECHNICAL CHALLENGES



- DELAYS IN DEVELOPMENT



- REAL-TIME COMMUNICATION (SIGNALR) COMPLEXITY



MITIGATION STRATEGIES:



- ALLOCATE TIME FOR LEARNING AZURE THROUGH TUTORIALS AND RESOURCES

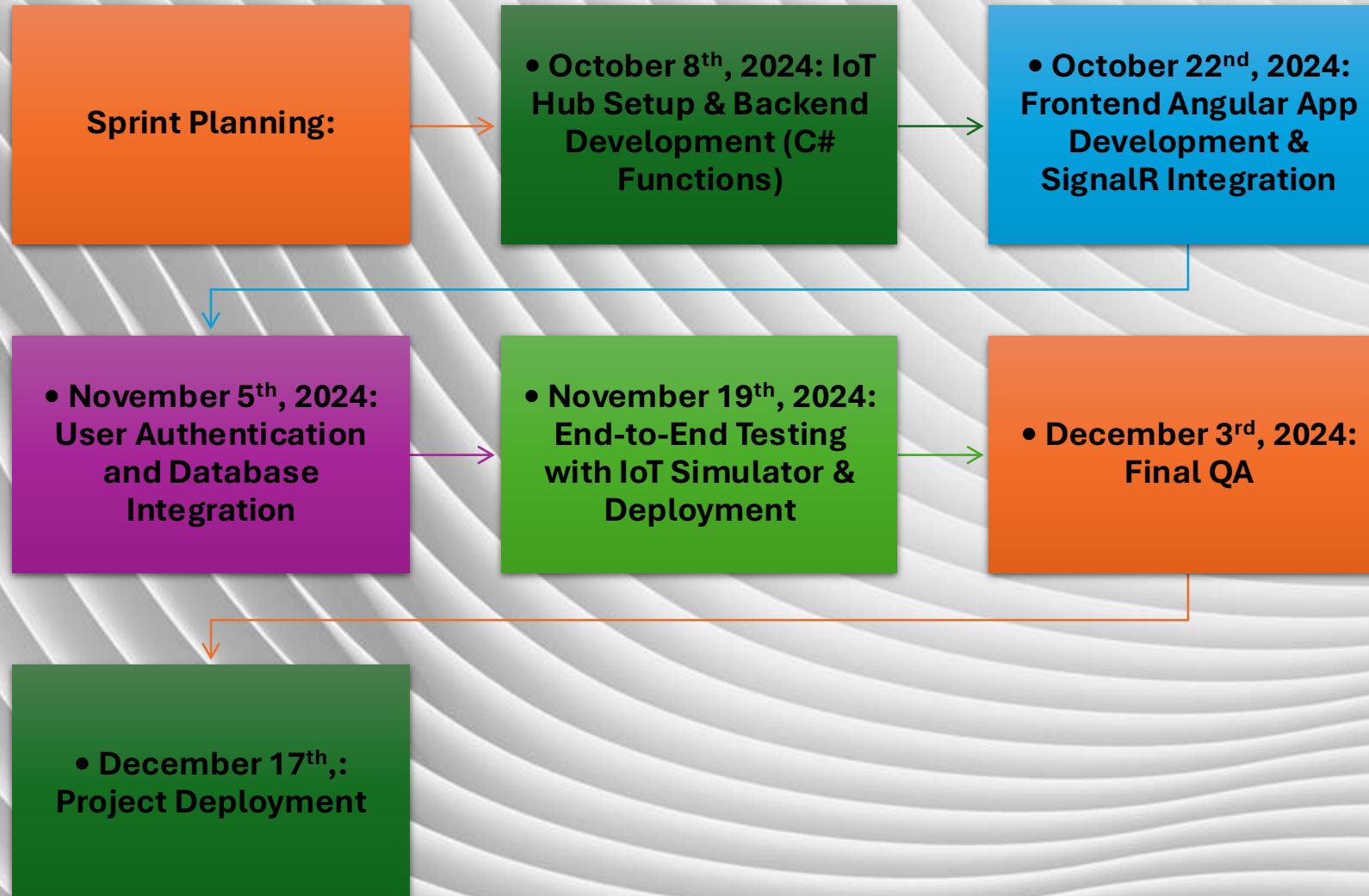


- USE FREE-TIER RESOURCES IN AZURE AND MONITOR USAGE



- BEGIN REAL-TIME COMMUNICATION INTEGRATION EARLY TO CATCH ISSUES

Project Timeline and Sprints



Dev team

- Elie Kheirallah
<https://www.linkedin.com/in/elie-kheirallah-a61613195/>
- Farouk Ait Oujkal
<https://www.linkedin.com/in/farouk-a-114429264/>
- Jamal Assou
<https://www.linkedin.com/in/jamal-assou-5972772a0/>
- Alain Michel Nitunga
Nitunga<https://www.linkedin.com/in/nitunga-alain-m-97b9b229a/>
- Léo Calvo Castaño
<https://www.linkedin.com/in/l%C3%A9o-calvo-573ab729a/>

