

Product Backlog:

Sprint 1 (Foundation Sprint)

User Story	Priority	Estimation (Hours)	Status
Team formation	High	2	Completed
Project Selection	High	1	Completed
Team Roles	High	1	Completed
Client Meeting	High	3	Completed
Project Overview with client	High	3	Completed
Hardware Acquisition	Medium	4	Completed

Sprint 2 (Hardware Configuration Sprint)

User Story	Priority	Estimation (Hours)	Status
Install Arduino Software	High	2	Completed
Create GitHub Repo	Medium	2	Completed
Speaker Configuration	High	3	Completed
LED Configuration	High	3	Completed
Gyroscope Configuration	Medium	4	Completed
Accelerometer Configuration	Medium	4	Completed

Sprint 3 (Software Development Sprint)

User Story	Priority	Estimation (Hours)	Status
ESP32 Configuration	Medium	4	Completed
Heartbeat Sensor Configuration	High	5	Completed
Arduino Uno Configuration	Medium	3	Completed
Arduino Mega Configuration	Medium	3	Completed
Arduino Lilypad Configuration	Medium	3	Completed
Hardware Integration	High	5	Completed

Sprint 4 (Prototype and Testing Sprint)

User Story	Priority	Estimation (Hours)	Status
Prototype Building	High	6	Completed
Software research	Medium	4	Completed
Software Technology Selection	Medium	4	Completed
Software Prototyping on Figma	Medium	4	Completed
Team Software consultation	Medium	3	Completed

Sprint 5 (Final Integration Sprint)

User Story	Priority	Estimation (Hours)	Status
First Feature build	High	5	Completed
Test Feature	High	5	Completed
Install App on phone	High	3	Completed
Integrate hardware and software	High	5	Completed
Testing Smart Cape with the App	High	6	Completed

Sprint 6 (Delivery and Presentation Sprint)

User Story	Priority	Estimation (Hours)	Status
Build Full Prototype	High	7	Completed
SATNAC Masterclasses	Meduim	4	Completed
SATNAC Documentation	High	6	Completed
SATNAC Presentation	High	6	Completed
Presentation	High	6	To Do