

SDP_Claynce Gantt Chart

Project Planning

- Find project idea and Create Pitch
- Setup Resources
- Work on Project Plan
- Project Plan

Software

- Find suitable web host
- Configure and setup server database
- Research UI/UX prototypes
- Design UI/UX prototype
- Impl. 1st draft of web app.
- Testing #1
- Demo 1
- Impl. changes from Demo 1 Feedba...
- Implement 2nd draft of web applicat...
- Refining web interface
- Create login page
- Config. simu. and session ser. from...
- Connect Webots to web interface
- Showcase warning or error sign
- Functionality of emergency stop rob...
- Mid-February
- Testing #2
- Demo 2
- Refine changes from Demo 2 Feedb...
- Provide end-user ability to choose cl...
- Testing #3
- Demo 3
- Refine changes from Demo 3 Feedb...
- Implement additional specifications
- Refining final product and testing
- Final Demo
- Impl. Presentation Website for Trade...
- Trade Fair

Hardware

- Create Tennis rectangle
- Create Poles,nets and borders
- Obstacles outside the court
- Demo 1
- Defining the right type of robot
- Build the robot
- Physical on/off button
- Detachable/attachable Heavy Net
- Mid-February
- Creating interchangeable parts
- Charging Station (Resting point)
- Demo 2
- Testing and optimisation

Localization

- Getting advice from Navigation Expe...
- Demo 1
- Internal Model Mapping Research
- Localization Methods Research
- Feasibility Testing in the Environme...
- Selection of the localization Solution
- Mid-February
- Localization Algorithm Implementati...
- Demo 2
- Algorithm fine-tuning
- Localization Testing

Navigation

- robot follows a predefined pattern
- follow the pattern inside the bounda...
- Mid-February
- Switch side of the court/avoid obstac...
- Demo 2
- Return to a specific position

Robot works with predefined vari...

- Integration between Localization an...
- Demo 3
- Testing after combining all parts
- Demo 4
- Testing After Combination
- Trade Fair

