Robot Radar

Team C
Bastian

Project Start:	Tue, 8/23/2022
Today:	Thu, 12/1/2022
Display Week:	1

TASK	ASSIGNED TO	PROGRESS	START	END
Phase 1: Project Scoping				
Team Contracts	Team	100%	8/22/22	8/27/22
Develop Project Idea	Team	100%	8/22/22	8/29/22
Initial Project Scope	Team	100%	8/29/22	9/3/22
Revised Project Scope	Team	100%	9/3/22	9/10/22
Sequence Diagrams	Team	100%	9/10/22	9/23/22
Class Diagrams	Team	100%	9/23/22	9/30/22
State Diagrams	Team	100%	9/30/22	10/7/22
Activity Diagrams	Team	100%	9/30/22	10/7/22
Phase 2.2: Development - Frontend				
Authentication	A	100%	10/7/22	10/14/22
Dockerize image live demo	A	100%	10/7/22	10/17/22
Greeting Card	A	100%	10/7/22	10/21/22
Output Terminal Card	A	100%	10/7/22	10/21/22
Latency Graph Card	A	100%	10/7/22	10/28/22
Live Camera Feed Card	A+E	100%	10/7/22	10/28/22
Radar Card	A	100%	10/17/22	10/21/22
Control Card	J+A	100%	10/7/22	10/21/22
Move Endpoint	A	100%	10/16/22	11/6/22
Correct State change issue on Radar GUI & Impliment Request timer	A	100%	11/10/22	11/22/22
Implementing Requests to and from REST	A	100%	11/4/22	11/18/22
Create Docker image for Postgres DB	A	100%	10/26/22	11/4/22
Deploy React App to Moxie	A	100%	11/22/22	11/25/22
Camera Endpoint	A+J+E	100%	10/16/22	11/6/22
Phase 2.2: Development - Backend				
Get familiar with Postgres/pgAdmin 4	V	100%	10/7/22	10/14/22
Define DB schema	V	100%	10/14/22	10/21/22
Figure out how to create Dockerfile for endpoint, create image and container	V	100%	10/14/22	10/22/22
Create Flask endpoint with dummy data (getting map data)	V	100%	10/20/22	10/23/22
Figure out how to create Docker container on Moxie	V	100%	10/24/22	11/6/22
Create Flask endpoint for stitching 360 panorama	V + E	100%	10/24/22	11/3/22
Define JSON Response Schema - 360 panorama	V+A	100%	10/24/22	11/4/22
Define JSON Request Schema - 360 panorama	V+A	100%	10/24/22	11/4/22
Create Flask endpoint for map data retrieval	V	100%	10/31/22	11/9/22
Define JSON Request Schema - autonomous mode	V+A	100%	11/6/22	11/9/22
Create robot initialization endpoint(obtain robot IP address)	V	100%	11/6/22	11/11/22
Create Flask endpoint for autonomous mode (Dijkstra)	V+A	100%	11/9/22	11/14/22
Create Flask endpoint for map data update	V+J+E	100%	11/9/22	11/16/22
Define JSON Response Schema - autonomous mode	V+A+J	100%	11/14/22	11/16/22
Endpoint for Robot Photos to replace livestream	V + E(:( ) + J	100%	11/14/22	11/18/22
Phase 2.2: Development - Robot				
GoPiGo Tutorial	J+E	100%	10/14/22	10/21/22
Ensure full robot functionality	J+E	100%	10/17/22	10/20/22
Complete Flask Tutorial	J+E	100%	10/17/22	10/24/22
Record videos for presentation	J+E	100%	10/20/22	10/21/22
Figure out how to take pictures with robot	J+E	100%	10/20/22	10/24/22
Create move endpoint	J+E	100%	10/21/22	10/26/22
Create move autonomous mode endpoint	J+E	100%	10/26/22	10/28/22
Create camera endpoint	J+E	100%	10/28/22	11/1/22
Create panorama endpoint	J+E	100%	11/1/22	11/6/22
Create radar endpoint	J+E	100%	11/1/22	11/4/22
incorporate location/orientation info for move commands etc.	J+E	100%	11/6/22	11/10/22
Figure out how to allow inbound connections on colloseum(connect robot and moxie)	J+E	100%	11/3/22	11/11/22
allow flask to be run on boot(when the robot is turned on)	J+E	100%	11/6/22	11/10/22
Phase 2.3: Integration				
Integrate Backend with Frontend, Troubleshoot	A+V	100%	11/6/22	11/25/22
Integrate Backend with Robot, Troubleshoot	V+A+J	100%	11/6/22	11/25/22
Clamp down obstacle detection parameters	V	100%	11/21/22	11/23/22
Have robot sent response AFTER motors finish moving	V	100%	11/22/22	11/23/22
Fix Dijkstra mapping issues	V+A	100%	11/23/22	11/25/22
Dry run	V+A	100%	11/25/22	11/25/22
Tweak motor code	V	100%	11/26/22	11/27/22
Thanksgiving Break	Team	100%	11/21/22	11/25/22
Phase 5: Testing and Refinement				
Final Presentation		0%	11/29/21	12/3/21
Final Project Artifact Submission (Brightspace)		0%	12/3/21	12/3/21

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