

Moway - Virtual self driving car using reinforcement learning

Feb 8, 2019

CS3202 - Software Engineering Project

<https://github.com/sajeevan16/Moway>

Project manager

V. Sajeevan

Project dates

Jan 15, 2019 - May 4, 2019

Completion

22%

Tasks

53

Resources

1

The project is about designing and developing a virtual self-driving car using reinforcement learning to mimic the behaviour when it is running with set of another self-driving cars or human cars. This can be used to observe the impact that the self-driving car can have on damping the traffic bottlenecks caused by manned vehicles. This framework can be simulatable in different traffic situation and different phenomena.

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Tasks

2

Name	Begin date	End date	Duration
Moway - Virtual self driving car	1/15/19	5/3/19	109
Inception	1/15/19	2/6/19	23
Project Proposal	1/15/19	1/24/19	10
Understand the Project	1/15/19	1/15/19	1
Study existing projects	1/16/19	1/18/19	3
Identify requirements	1/18/19	1/20/19	3
Prepare project proposal document	1/20/19	1/23/19	4
Finalise project proposal document	1/24/19	1/24/19	1
Project planning	1/25/19	2/6/19	13
Feasibility study	1/25/19	1/28/19	4
Prepare feasibility report	1/29/19	1/31/19	3
Finalise feasibility report	2/1/19	2/1/19	1
Project planning and scheduling	2/2/19	2/4/19	3
Prepare project schedule	2/4/19	2/6/19	3
Elaboration	2/7/19	2/25/19	19
Requirements	2/7/19	2/16/19	10
Find and analyse requirements	2/7/19	2/8/19	2
Requirement specification	2/9/19	2/10/19	2
Requirement validation	2/11/19	2/12/19	2
Prepare SRS Document	2/11/19	2/14/19	4
Finalise SRS document	2/15/19	2/16/19	2
Design	2/13/19	2/23/19	11
Prepare abstract design	2/15/19	2/16/19	2
Architectural Design	2/17/19	2/18/19	2
Component Design	2/19/19	2/20/19	2
Prepare SDS Document	2/13/19	2/22/19	10
User interface Design	2/21/19	2/23/19	3
Finalise SDS Document	2/22/19	2/23/19	2

Tasks

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Name	Begin date	End date	Duration
Prepare project progress report I	2/24/19	2/25/19	2
Construction	2/24/19	4/1/19	37
Iteration I	2/24/19	3/6/19	11
QA Plan and Testing plan	2/24/19	2/25/19	2
Implement user management system	2/26/19	2/28/19	3
Unit Testing	3/1/19	3/2/19	2
Prepare demonstration for Mid	2/28/19	3/6/19	7
Iteration II	3/3/19	3/19/19	17
Implement flat Car and Environment	3/3/19	3/4/19	2
Implement Autonomous Car using Reinforcement Learning	3/5/19	3/6/19	2
Implement Connectivity of Autonomous Car With Environment	3/7/19	3/8/19	2
Improve code quality	3/9/19	3/12/19	4
Improve User Interface	3/13/19	3/16/19	4
System integration	3/17/19	3/19/19	3
Prepare progress report II	3/19/19	3/21/19	3
Testing	3/22/19	4/1/19	11
Unit testing	3/22/19	3/24/19	3
System integration testing	3/25/19	3/28/19	4
Prepare testing report	3/28/19	4/1/19	5
Transition	4/2/19	5/3/19	32
System validation and Beta testing	4/2/19	4/4/19	3
System Deployment	4/5/19	4/7/19	3
Prepare Final Demonstration	4/8/19	4/12/19	5
Prepare final report	4/13/19	4/26/19	14
Prepare project paper	4/27/19	5/3/19	7

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Gantt Chart

