

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	10 May 2023
Team ID	NM2023TMID01052
Project Name	Project- “AI enabled car parking using OpenCV”
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of our proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	load the video	load the appropriate parking lot video.
FR-2	Analyse of video	Preparation of raw data and make it suitable for building of machine learning model.
FR-3	Building Artificial Intelligence model	Load the video in the model Determine the machine learning techniques that will be used to train the AI model. Process the video and get output Deploy the model
FR-4	Train the data	Train the model using training video.
FR-5	Test the data	At last, test the model for evaluation of final model.

Non-functional Requirements:

Following are the non-functional requirements of our proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It can be use by all the drivers in the parking lot to know the empty lot
NFR-2	Security	Providing secure system to all the users who are all using the parking lot
NFR-3	Reliability	System will operate without failure for a specific period of time.
NFR-4	Performance	Our model predictions are same as the true values. So, the performance is higher.
NFR-5	Availability	Available to different group of companies which has largest parking lot.
NFR-6	Scalability	In our model, Prediction of parking lot will be faultless.