IQRA UNIVERSITY IU

Project Defense Status/Registration Form

To be filled by the student

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Project Title:

Routing Optimization System

Project Objectives:

- To formulate an algorithm that would optimize the route for a delivery problem by suggesting the best possible rider for a particular rider at a particular time.
- To suggest the best possible route for the rider selected for the delivery.

Current Project Status Marker (Tick one)

20%	**40%**	60%	80%	100%

Comments (Details of the Project Status- Mention all the requirements that are completed and remaining)

- Major challenge was to find the appropriate data set. The data set being used is taken from Kaggle.
- A few modifications in the data set has also been made to make it work according to our scenario such as a few features of the rider are added which were needed in the process of calculating the fitness value of a rider.
- The algorithm has three main steps i.e.
  i. Niching: From the whole population or riders, select the riders that could possibly be the best choice. The framework for this part has been written.
  ii. Calculating and Comparing Fitness Value: Fitness value of each rider will be calculated. The Framework of this part has been discussed but still needs to be written in proper format.
  iii. Sort riders and suggest the top one: Riders, after the calculation of their fitness values, will be arranged according to their fitness values and the top one will be suggested as the best possible rider.
- Currently, the work has been done till the half of 2nd step of the third point.

Student Signature

To be filled by the supervisor

Current Project Status Marker (Tick one)	20%	40%	60%	80%	100%

Comments:

To be filled by the Panel

Final Remarks:

Supervisor **Project Coordinator**