

Chapter 3

Concept Design and Evaluation

This section aims to identify and refine any requirements that were required of the training platform, and then demonstrate and analyse a concept solution that will be expanded into the final delivered demonstration model in further sections.

Table 3.1 shows the user requirements that were derived from the project objectives and literature review. These user requirements are then analysed in Section 3.1 to determine the performance and functional engineering requirements.

Table 3.1: Derived User Requirements

	User Requirement	Priority
UR 1	Connect with Zwift	Essential
UR 2	Realistic Riding Simulation	Essential
UR 3	Weight Should be Comparable to Market Products	High
UR 4	Accept a Wide Range of Bicycles	High
UR 5	Accurate Measured Training Data	Medium
UR 6	Less Expensive than Market Products	High
UR 7	Platform Easily Stored	Medium