IOWA ADVENTURE CYCLIST COURSE CREATOR

PROJECT PLANNING

SD MAY 25 -06



PROJECTTHE CREATION OF A MAPPING APPLICATION FOR CYCLISTS THAT CAN:

Use mapping utility to create routes that can be exported to GPS devices or other applications



Identify different types of road surfaces and elevations of intended route





Identify potential roadblocks and safety hazards



 Cyclists need a way to determine the surface classification of unfamiliar roads when charting out a path ahead of time

 Some cyclists prefer to stay on paved roads while other adventure cyclists seek out rougher "Class B" roads

HYBRID MANAGEMENT S



Waterfall



- Overall sequential development over semesters
- Iterative sprints for system development





Weekly meeting to discuss progress and assign tasks
Iterative system testing throughout creation

HGH LEVEL TASK DEGONP

Project Creation

- Determine Requirements
- Screen Prototyping
- System Setup
- Connect System To DatabAse
 Export GPX to Garming
- Connect to Apls
- Setup login

- Algorithm creation for pathfinding
- Route Creation
- Save Routes
- Share Routes
- System Test



Feature Implementation

RSK AND MIGATIC

Usability

Risk: User is unable to easily navigate the application's UI and successfully complete intended tasks.

Mitigation: Use good design practices and adhere to engineering standards.



Availability

Risk: System crashes and data loss could prevent user from successfully planning their route.

Mitigation: Having stored favorites will act as a back up and provide an option in times of failure.

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Accuracy

Risk: Inaccurate information could lead to dead end routes or safety concerns for our users.

Mitigation: Pulling data from different api sources in addition to allowing users to post warnings will bolster acuuracy.

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- Our app prioritizes cyclist safety, convenience, and personalization
- Next Step: Continue refining user requirements and begin development of the core features









QUESTIONS?

