


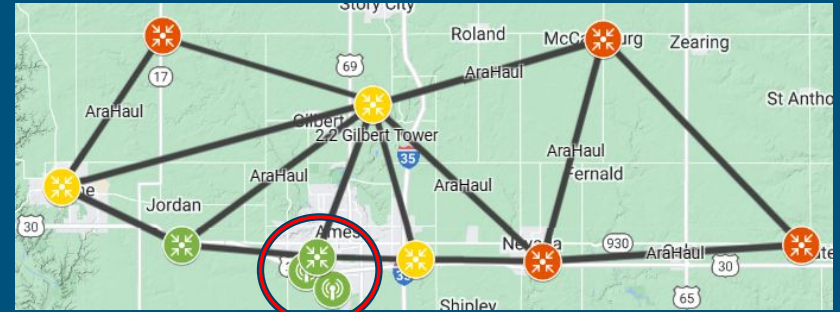
Continuous Visualization of CyRide Through an Interactive Map

Team 22: Endi, Braden, Evan, Andrew
Advisor: Dr. Mohamed Selim
Client: Dr. Mohammed Soliman



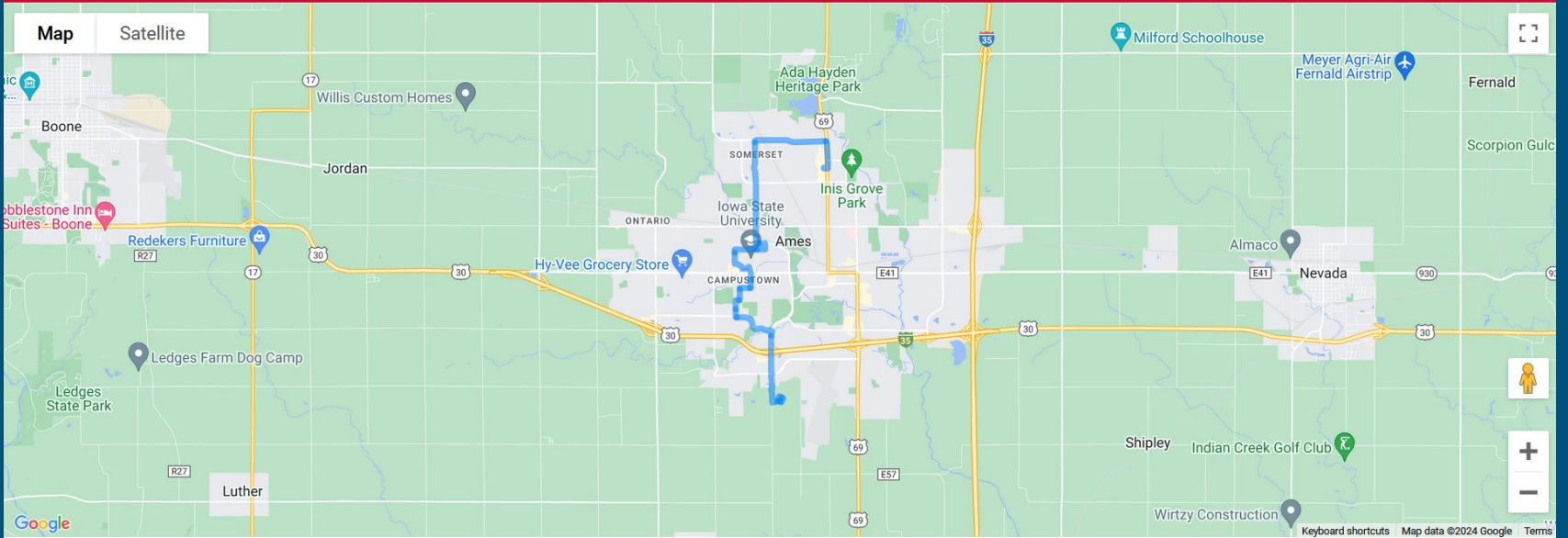
Project Overview

- Provide a visualization of Cyride Bus movement through UE (user equipment) devices
- User equipment is any electronic device that is connected to a network (phone or laptop)
- UE's transmit their location when in range of given base stations (signal towers).
- Outside of range will predict using machine learning.
- Provide updates on UE connection and predictions for when a UE will be in range of base stations.



Project Overview

Cyride UE Visualization Senior Design December 2024 Group 22



Braden Buckalew

Evan Schlarman

Endi Odobasic

Andrew McMahon

Advisor: Mohamed Y. Selim

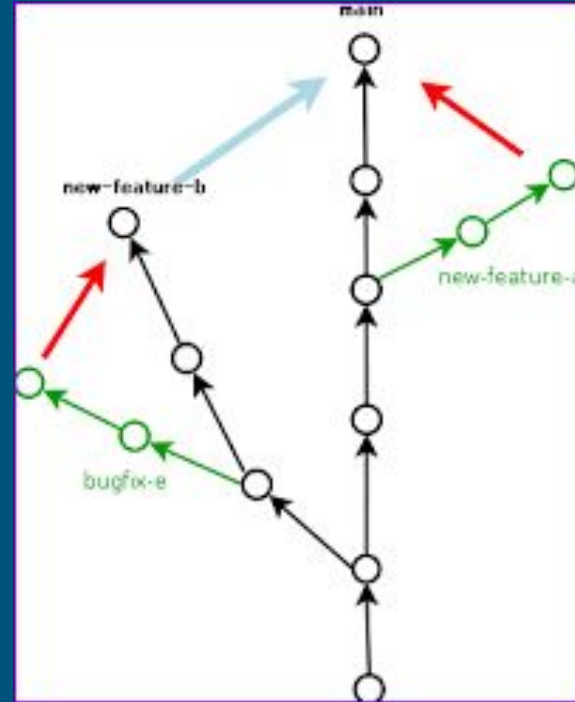
Client : Mohammed Soliman

Project Website

IDEALS - Area of Strength

Work Competence

- Transparent
 - Updates, Feedback, Documentation
- Best Practices | Standards
 - Language Intricacies
 - Agile, Issues, Reviews, Merges



IDEALS - Area of Strength

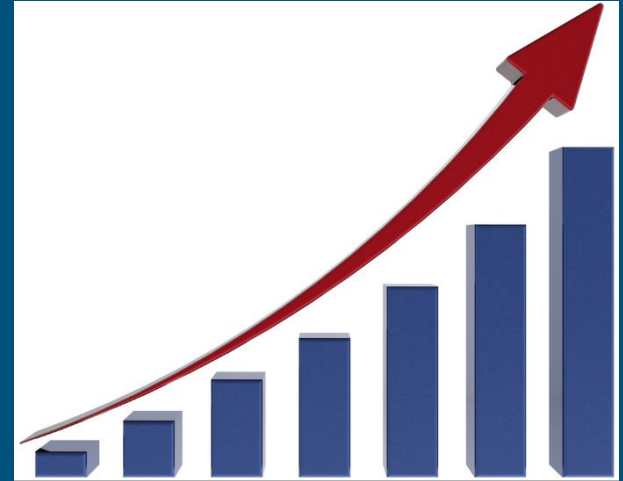
Work Competence

- Expectations | Responsibilities
 - Communicate | Time | Quality
 - Collaborate
 - Clarity
 - Accountability
- Awareness
 - Reflect, Mindful

IDEALS - Area of Improvement

Financial Responsibility – Allocation

- Resources
 - Google API, Server
- Client Satisfaction
 - Delivering at reasonable cost
 - Financial Responsibility
- Cost Monitoring
 - Checking Usage
 - Free Trials



IDEALS - Area of Improvement

Financial Responsibility – Estimation

- Improve Cost Plan
 - Estimate Costs at all phases
- Risk Management
 - Assess risks on financials - don't spend too much

Ethical Issues + Concerns

Data Privacy and Security

- User Data
 - IP's, Cookies, Session Keys, ...
- Security measures
 - Encryption, Access Management

Machine Learning Model

- Unfamiliarity
 - Bias, Unfairness
- Research
 - Document, Privacy Techniques



Conclusion

Questions?