



CRANCStorm

Team Mentor: Bailey Hall

CRANC ON!

Team Members

**Braydon
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**Noelia
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About our Client



A little about him

Steven R. Gerhke
Assistant Professor
Geography, Planning, and Recreation
Northern Arizona University

Background & Credentials



- PhD in Civil and Environmental Engineering
 - MS in Community Planning.
- Prior work as Transportation Analyst, research in sustainable transportation, active transportation, micromobility.

Work Focus

Studies travel behavior, transportation-land use interactions, and accessibility issues.

He uses technology and tools (web-based, surveys, spatial data) for things like cyclist route decision making, pedestrian/bicyclist safety.

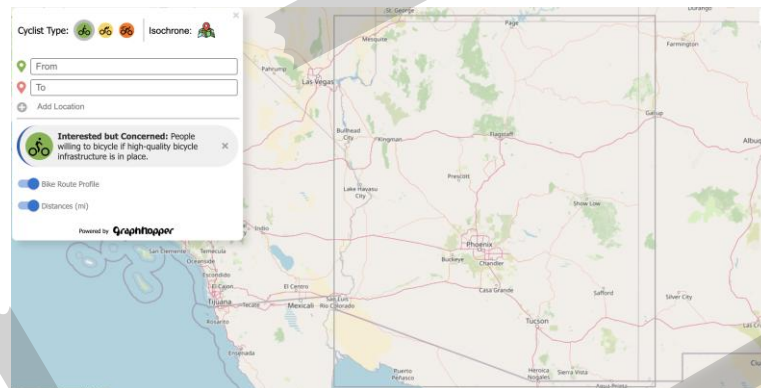
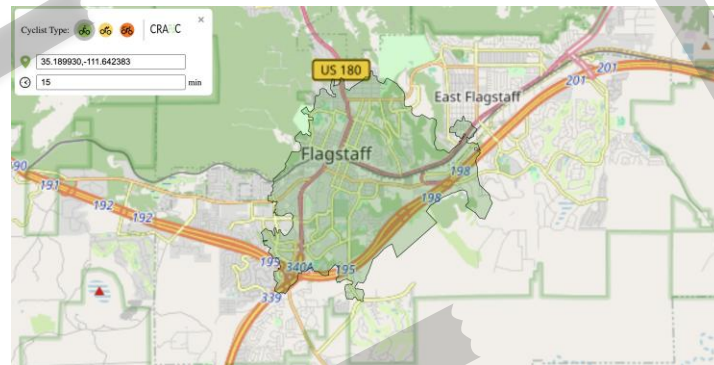
Why CRANC?

"For many NAU students, commuting means riding a bike or e-scooter. But depending on the route you take, riding alongside cars can feel intimidating – and sometimes unsafe.

That's where the CRANC software comes in. It helps commuters find the safest routes, offering different stress-level routes for people who are more or less comfortable riding on busy streets."

What we're improving

- Modernize and simplify the UI for a smoother experience
- Improve Isochrone
- Mobile App Development: Making CRANC accessible and usable on the go
- Expanded CRANC Navigation Coverage





Our Goal

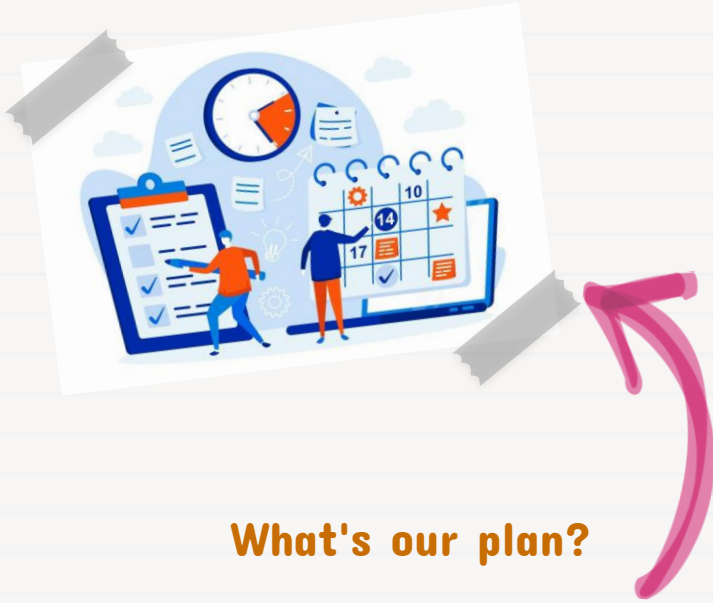
Expand Coverage: California, Nevada, Colorado, and New Mexico.

Mobile Accessibility: Deploy the mobile app to Android and IOS stores.

Isochrone Enhancement: Display points of interests inside the mapped radius with a pin-marker.

Elevate Usability: Update Isochrone features and overhaul appearance.

Development Plan



What's our plan?

- Split CRANCStorm into Web and Mobile teams each with two developers.
- User Verification
- Can we use NAU monsoon server store user data and sync to app?
- Is there a possibility in creating an offline feature for CRANC?

Thank You

