Project Charter: Blue Sky Watchers

1. Project Title:

Team Blue Sky

2. Project Sponsor:

C14-InceptionU

3. Team:

* Scrum Master: Linda Mbunwe
* Learners:
  + - Vathsala K.
    - Tony On
    - Robert Starak
    - Mike Fretwell

4. Purpose and Justification:

The Blue Sky Watchers….app is designed to provide real-time road condition monitoring for Calgary’s road users. The app will capture and display live snapshots from the city’s road cameras, enabling drivers, commuters, and logistics planners to make informed travel decisions. By reducing congestion, improving commute planning, and enhancing road safety, the app will serve as a crucial tool for efficient urban mobility.

5. Objectives:

- Provide real-time traffic snapshots from Calgary’s road cameras.

- Enable users to select and view specific road cameras based on location.

- Integrate an interactive map to display camera locations.

- Offer user-friendly search and filtering options for quick access.

- Allow users to save favorite camera views for personalized monitoring.

- Send notifications about high-traffic areas, road closures, or incidents.

6. Scope:

In Scope:

- Web-based application with HTML, JavaScript, and MongoDB backend. MERN Stack.

- Integration with Calgary’s public road camera system.

- User accounts for bookmarking favorite locations.

- Mobile responsiveness for seamless use on different devices.

- Data storage for historical snapshots and analytics.

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- AI-driven predictive traffic analytics (later phase).

Out of Scope:

- Automated speeding ticket detection.

- Live video streaming from road cameras.

7. Key Users:

- Calgary road users (commuters, delivery drivers, cyclists, etc.)

- City transportation authorities

* Other City internal service groups

- Public safety agencies

- Businesses relying on timely deliveries

- Tourists and visitors planning city travel

* Social influenza

8. Benefits:

- Reduces time wasted in traffic congestion.

- Enhances road safety by allowing users to avoid accident-prone areas.

- Supports businesses with real-time logistics planning.

- Helps city planners analyze traffic patterns for better urban management.

9. Risks and Constraints:

- Dependency on Calgary’s road camera data availability.

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- Privacy concerns regarding camera data usage.

- Compliance with municipal data-sharing regulations.

10. Deliverables:

- Fully functional web application.

- Interactive UI with map integration.

- Traffic camera snapshot retrieval system.

- User ---- authentication and profile features.

- Mobile-friendly interface for better accessibility.

11. Timeline:

- Phase 1: Research & Planning (1 week)

- Phase 2: UI/UX Design & Wireframes (2 week)

- Phase 3: Development & Integration (3 week)

- Phase 4: Testing & User Feedback (1 week)

- Phase 5: Launch & Continuous Improvement (May 2th)

12. Success Criteria:

- Successful integration with road cameras.

- High user engagement and adoption rate.

- Positive feedback from city commuters and businesses.

- Performance and reliability under high traffic load.

14. Conclusion:

The Blue Sky Watchers app will be a valuable asset for city residents, offering real-time road monitoring to improve travel efficiency and safety. By leveraging technology and data, the app will contribute to a smarter, more connected Calgary.

## Team Agreement

### Values and Norms

**Respecting Others**

* Friendly atmosphere, trust, and open-mindedness.
* Constructive criticism, active listening, and being mindful of different communication styles.
* During meetings, follow professional rules of etiquette and make sure everyone has a chance to give input.
* Equal treatment for all, regardless of background.
* Encourage one another. Listen to your teammates and be open to feedback. Recognize your coworkers' successes.
* Respect for privacy and professional growth opportunities.

**Professional Development**

* Collaboration and knowledge sharing.
* Space for questions and learning.
* Regular discussions on new technologies and methods.
* Support for personal growth passions—at the right time.
* Make sure you understand your task expectations and ask for clarification if needed.

**Well-Being**

* Adherence to team values, fostering a sense of belonging.
* Encouragement for breaks and family time.
* Flexibility when life happens.

**Communication**

* Clear, timely communication—especially about deadlines.
* Respectful disagreement and constructive feedback.
* Be willing to ask for help. If you notice that a team member needs help, offer it or work together to find a solution.

### FUN!!

### Communications Plan and Coordination Tools

* WhatsApp:
* Disco
  + https://inceptionu.disco.co/p/team-1---traffic-cameras-22oeo/dashboard
* Jira
  + https://yajehtech.atlassian.net/jira/software/c/projects/TC/boards/2
* Github
  + <https://github.com/coolsheets/blue-sky-watchers>
  + https://github.com/coolsheets/c14.p2.t1\_TrafficCameras
* Google Drive (Robert)
  + [drive.google.com/drive/folders/1avW1ncv\_S05fW026r83zhLw\_f46jzssB?usp=drive\_link](https://drive.google.com/drive/folders/1avW1ncv_S05fW026r83zhLw_f46jzssB?usp=drive_link)
* Google Meet
  + ad-hoc
* Zoom
  + stand ups and ad-hoc