

A decorative network diagram in the top-left corner, featuring a complex web of interconnected nodes and lines. Some nodes are highlighted with blue circles, and others with blue dots. The lines are thin and grey, creating a mesh-like structure.

The Link

By: Joseph Bello, Jaskirat Josan, Onisokien Ayonoadu, Samuel Iregbu

A decorative network diagram in the bottom-right corner, similar to the one in the top-left. It shows a network of nodes and lines, with some nodes highlighted by blue circles and others by blue dots.

Team BEEJ

Creators of The Link



Joseph Bello



Jaskirat Josan



Samuel Iregbu



Onisokien Ayonoadu

Project Intro





1. Problem Definition

“

*Not one streamlined
method for citizens to
report a problem in
their city.*



Currently three known methods to report a problem

- ◎ Call City of Regina contact center
- ◎ Online Service request Form
- ◎ Contact through social media



The City of Regina Receives

585

Calls Per day

50

Online Service Requests

Multiple

Social Media Requests

A decorative graphic in the top-left corner consisting of a network of interconnected nodes and lines, resembling a molecular or social structure. The nodes are represented by circles of varying sizes, some solid and some hollow, connected by thin lines.

Problems Identified

- ⊙ Long wait times
- ⊙ Searching and filling out form can be tedious
- ⊙ Not everyone has social media
- ⊙ Various activities on City of Regina's various social media pages
- ⊙ Citizens cannot keep track of the problems in the city and the status of their own reports



Problem Definition

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*Not one streamlined
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How *The Link* can help

- ◎ Everyone can be aware of problems in the city.
- ◎ Admin can decide whether reports are legitimate.
- ◎ Citizens can track progress of their report.





2. Technology

“

*Multiple technologies
were used for a
seamless collaborative
experience.*

Technology Utilized

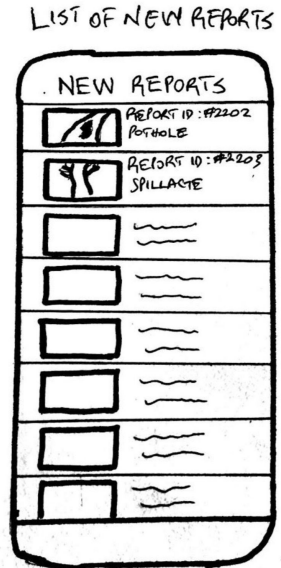
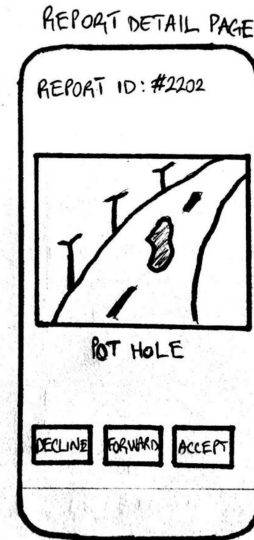
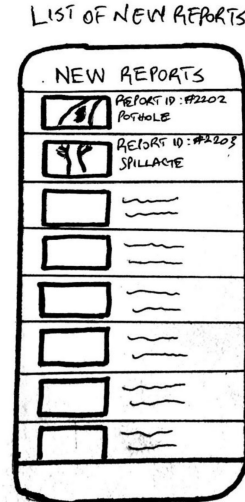
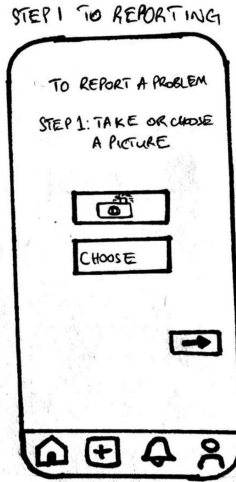
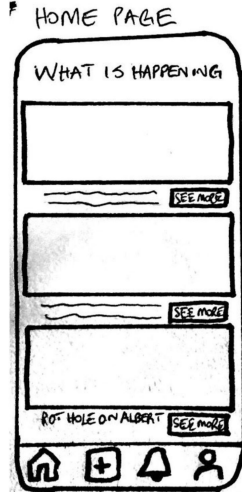
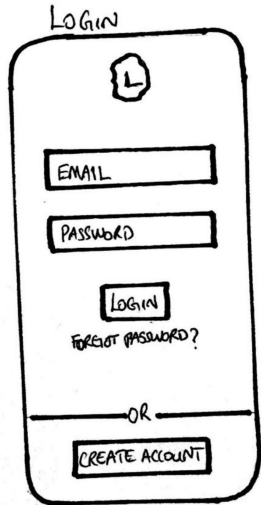
- ◎ **GitHub**
- ◎ **Wireframes: Adobe XD**
- ◎ **Backend: Google Firebase**
 - **Pre-built user authentication**
 - **Firestore real time database**
 - **Storage**
- ◎ **Front-end Framework: React JS**

3. Design & Implementation


“

- Everyone designed their own lofi's
- Choose the best features
- Create a final lofi

Low-fidelity Wireframe



High-Fidelity Wireframe




The Link

Login


Forgot Password?

OR


Create an account




The Link




Report #2202: Sinkhole on Albert intersection
more...



Report #2200: Water leak on Rose street
more...



Home Add Notifications Profile




The Link

To report a problem

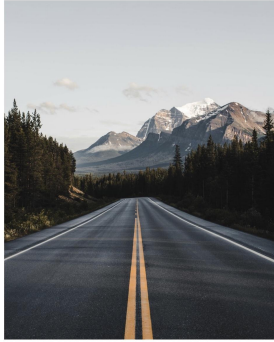
Take a picture or choose from library

IMG_2021.jpg

< >



The Link



Keyword: Pothole


Note: There is a pothole along the ring road south, and it already caused an accident.

Location: Ring Road South, Regina, SK.

Recipient: Ministry of Highway

Submit


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The Link

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Report ID: #2020

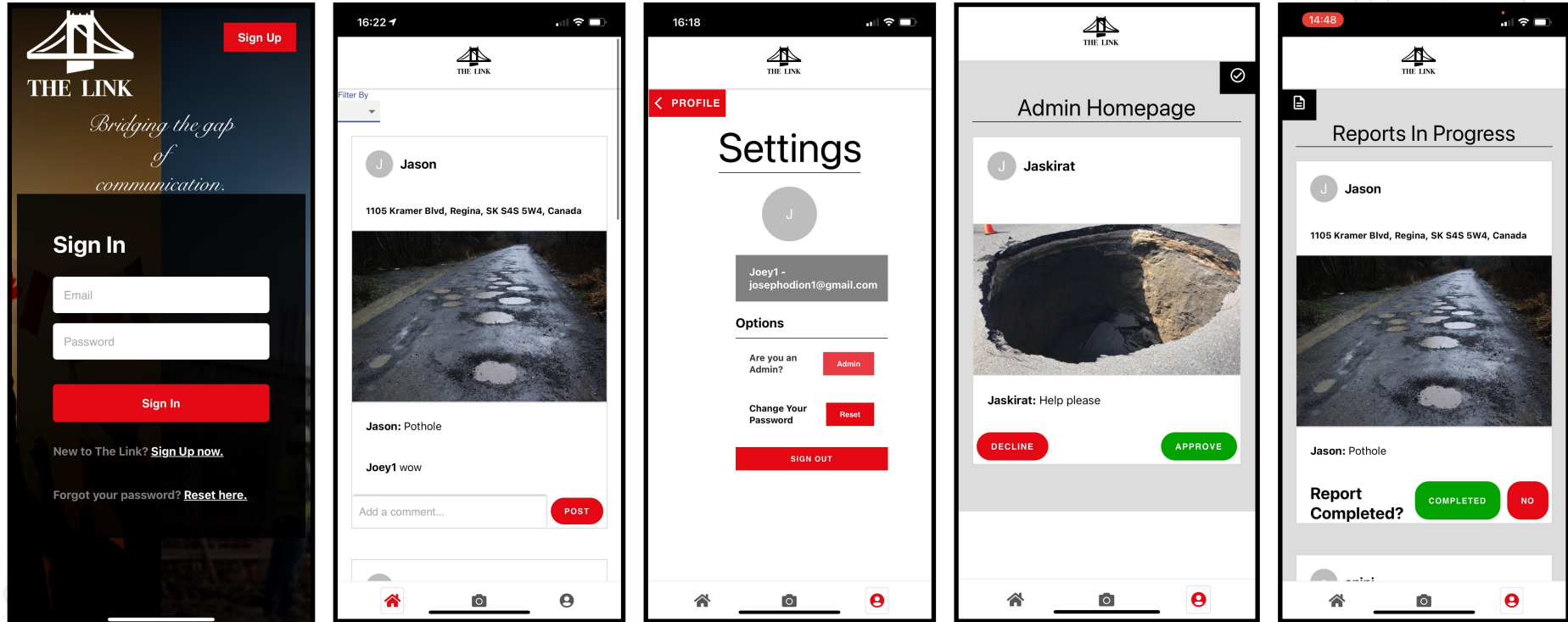


Pot Hole on Rose Street

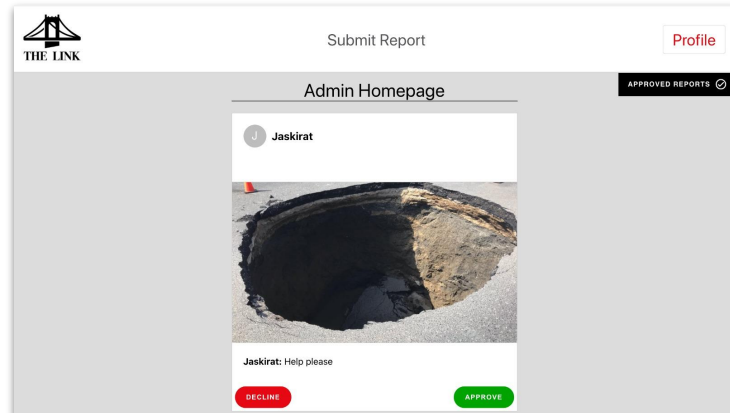
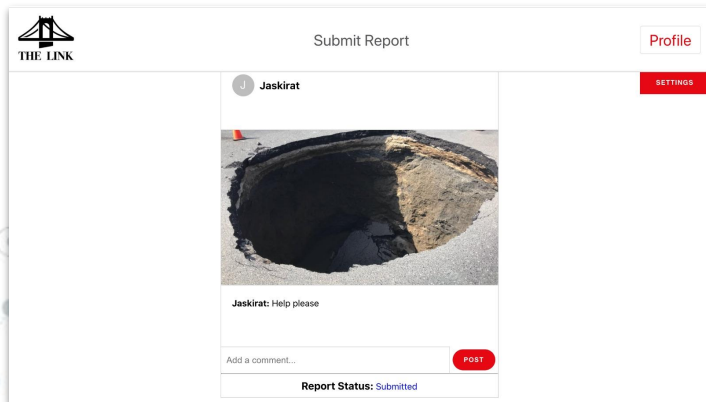
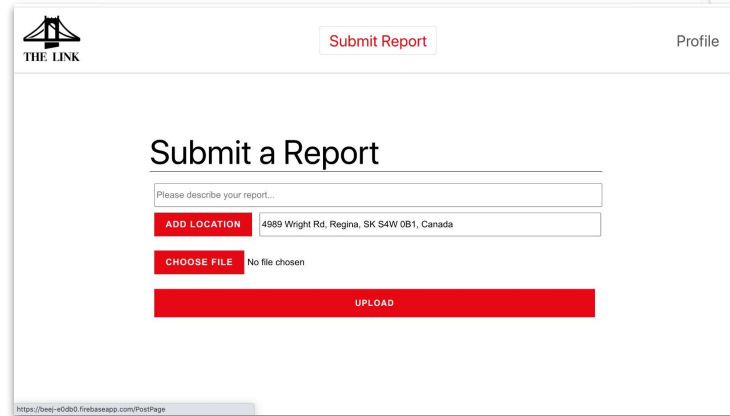
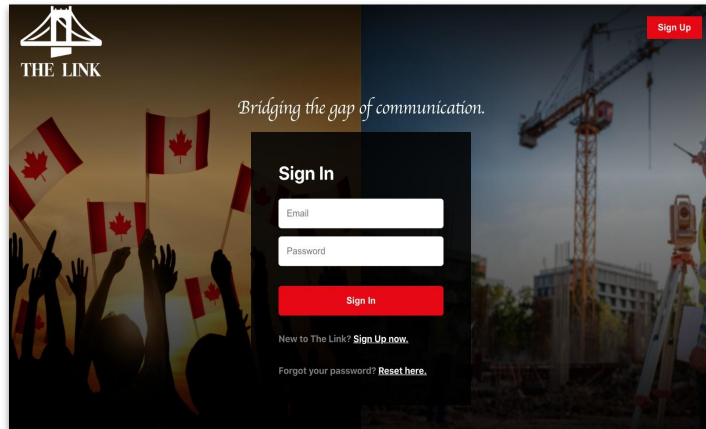
Decline Forward Accept

Home Document Check

Our Current Application on Mobile



Our Current Application on Desktop



A decorative network diagram in the top-left corner, consisting of a series of interconnected nodes and lines, some of which are highlighted in blue.

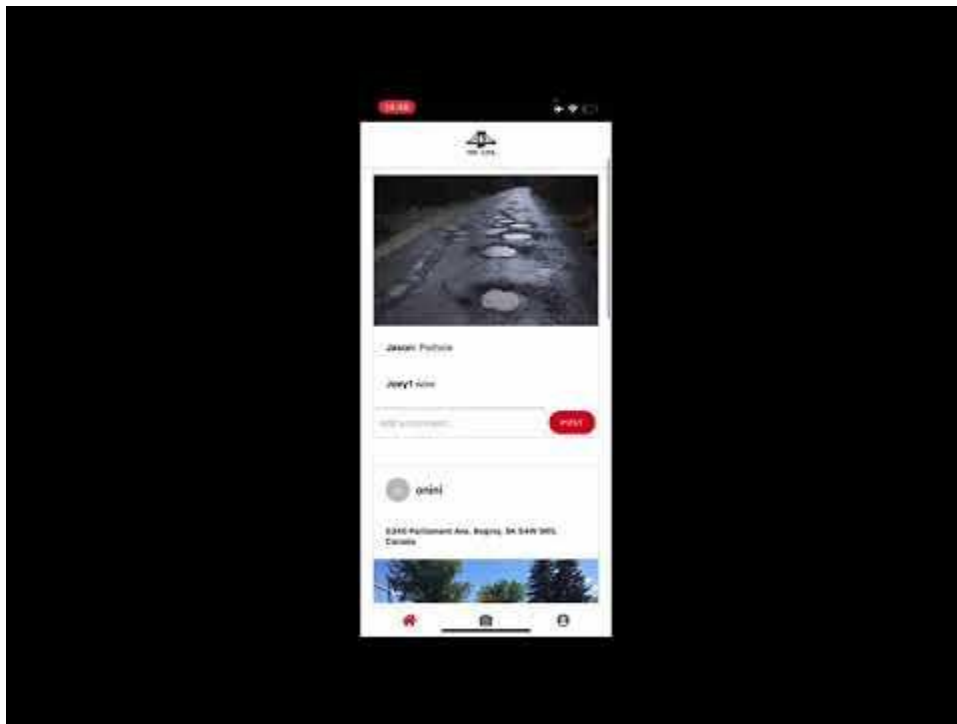
4. Demonstration

A circular icon containing a blue double quote symbol, indicating a quote or a key point.

“

*Detailed demonstration
of The Link*

Demonstration



A decorative network diagram in the top-left corner, consisting of a series of interconnected nodes and lines, forming a complex web-like structure.

5. Future Development

A decorative network diagram in the bottom-right corner, consisting of a series of interconnected nodes and lines, forming a complex web-like structure.

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Upcoming Features

Future MVP's

Push Notifications

That will alert the users when a report status has been updated.

Enlarge scope of app

By including different ministries that handle reports in the province.

Also branch out to other provinces in Canada.

Keyword Feature

That will be generated when a picture is taken, which will be matched up to the right ministry.

Two User Pools

For each set of users, one for authorities and the other for citizens.

Conclusion

- ⦿ A promising MVP has been delivered
- ⦿ A tool that can ease communication in the modern day
- ⦿ This tool can be expanded for all of Canada

Acknowledgements

Thank you to the following professors for guiding us throughout the course of this project.

- ◎ Project Advisor: Timothy Maciag, Ph.D
- ◎ Project Mentor: Craig Gelowitz, Ph.D



Thank you

Any questions?