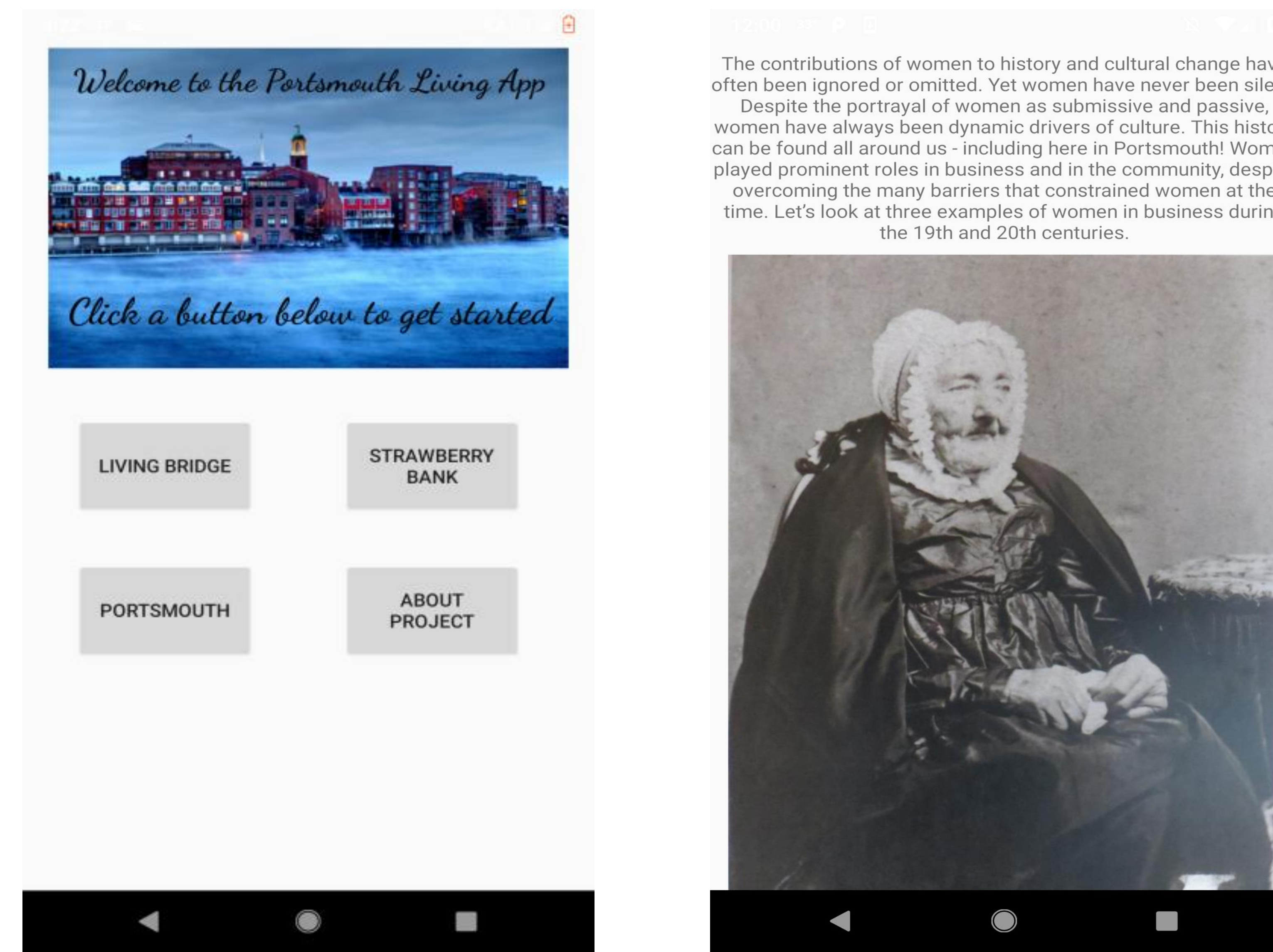


Discover Portsmouth Virtual Tour

Joshua Piper and David Styskal
Sponsors: Erin Bell, Eleanor Harrison-Buck, Collette Powers

Background of Project

- The Living Bridge Project is an ongoing project since its reconstruction in 2012.
- The sensors and instrumentation on the bridge provides a valuable learning platform for researchers, engineers, and the community.
- Bridge information is brought to a mobile platform.
- Integrate the Discover Portsmouth Visitor Center as a self-tour option to expand the application offerings.

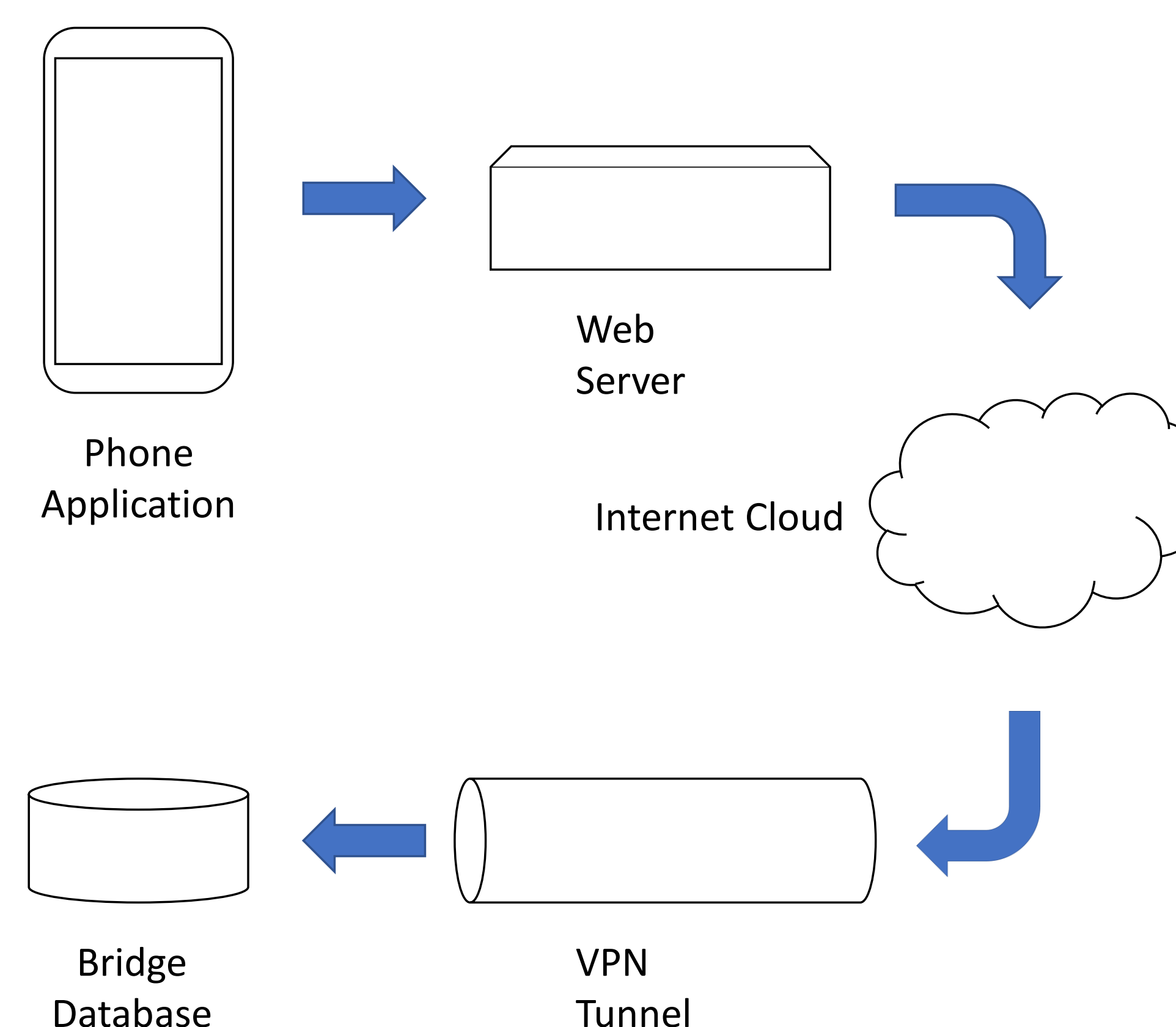
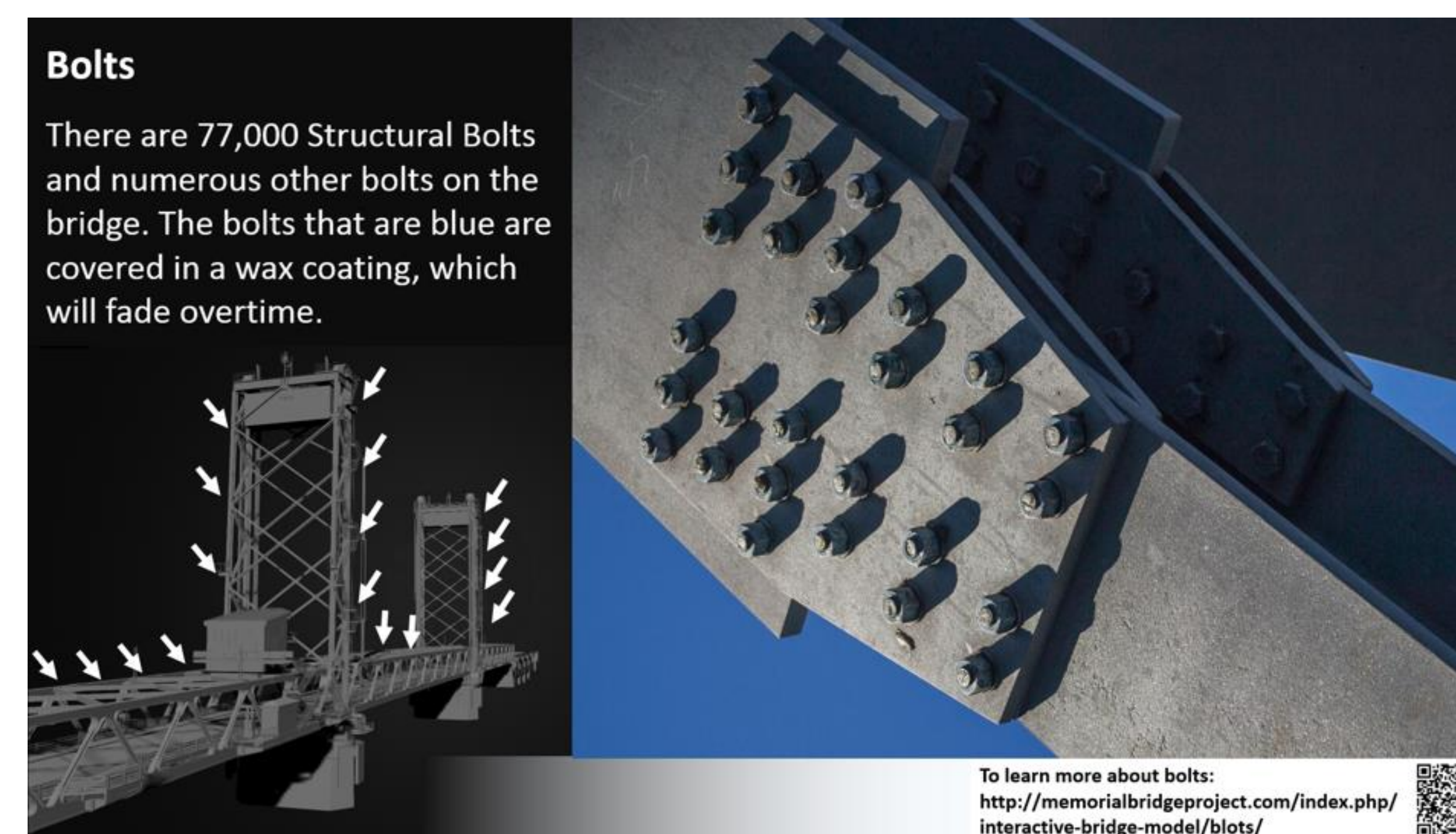


Android Development – Choices & Considerations

- Android platform selected for proof of concept for project.
- Core functions selected to be in-line with the website.
- Additional community engagement with Strawberry Banke and providing historical information.
- Uses QR codes on the Living Bridge and Strawberry Banke – both portraying information on a specific aspect of the design/history.

Project Goals

- Increase awareness of the living bridge project to the general public.
- Develop an application that makes bridge information and data more accessible.
- Create virtual tour experience for students, the community, and visitors in the Strawberry Banke.
- Design and implement application considering performance and future maintenance.
- Provide a user-friendly design and UX.



Future Enhancements and Implementations

- Integration with websites/iOS devices
- Notifications of locations to Living Bridge/Strawberry Banke QR Codes.
- Implementation of data retrieval from the Living Bridge sensors array.
- Promote use of the application through visitor center and local businesses.