



2017

Spirit of Broad Street Station

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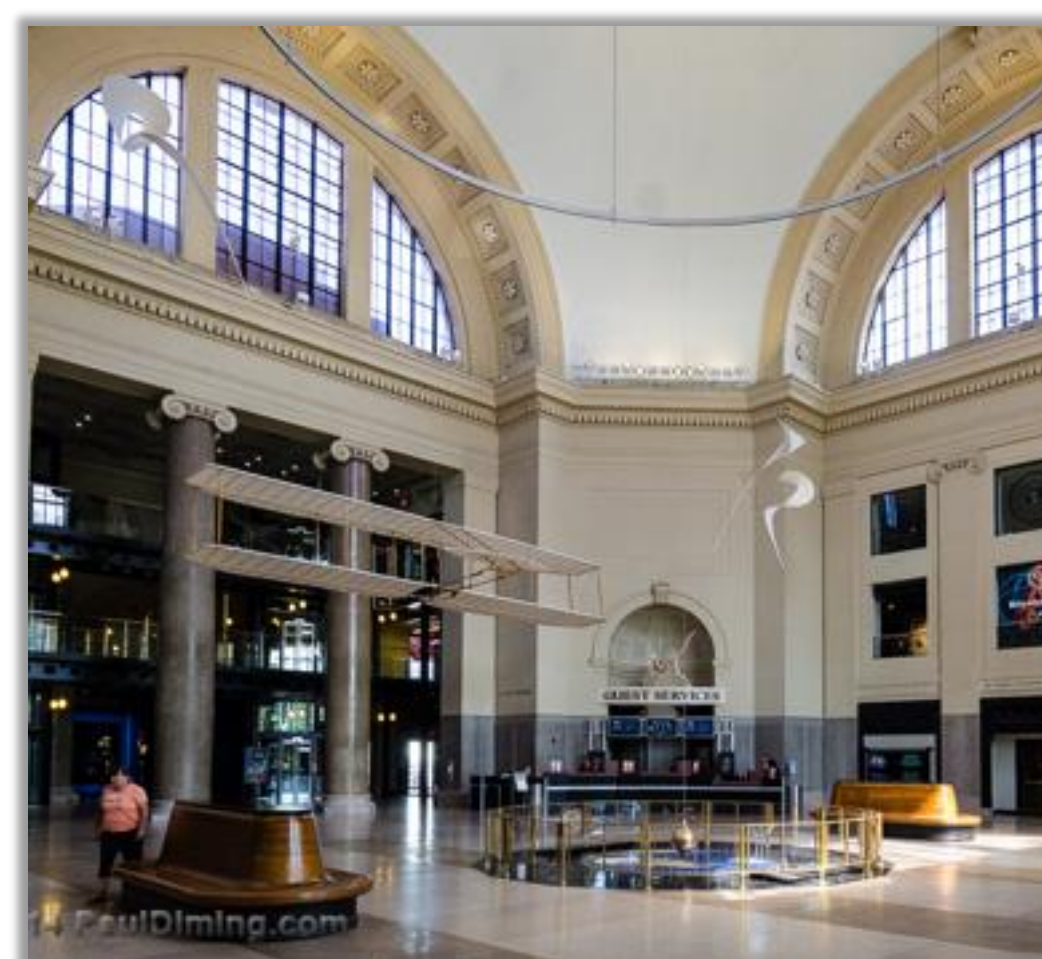
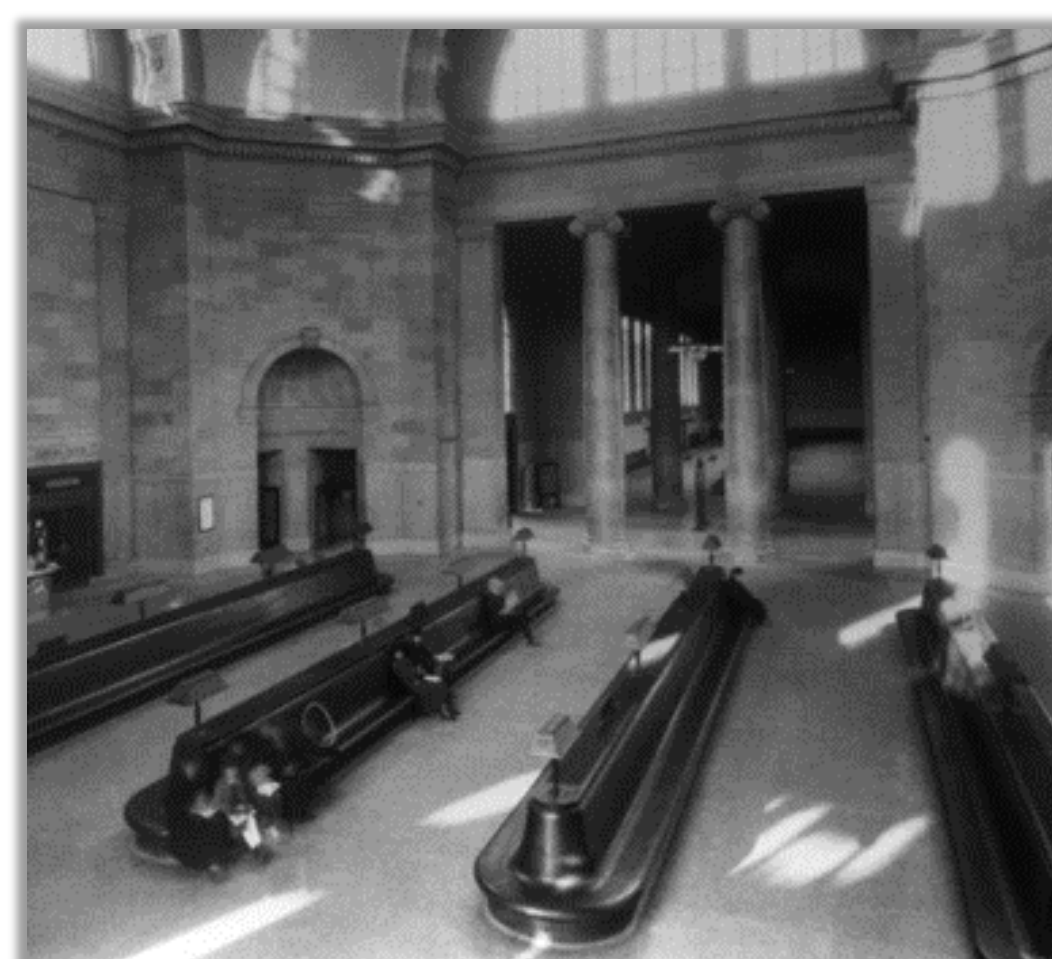
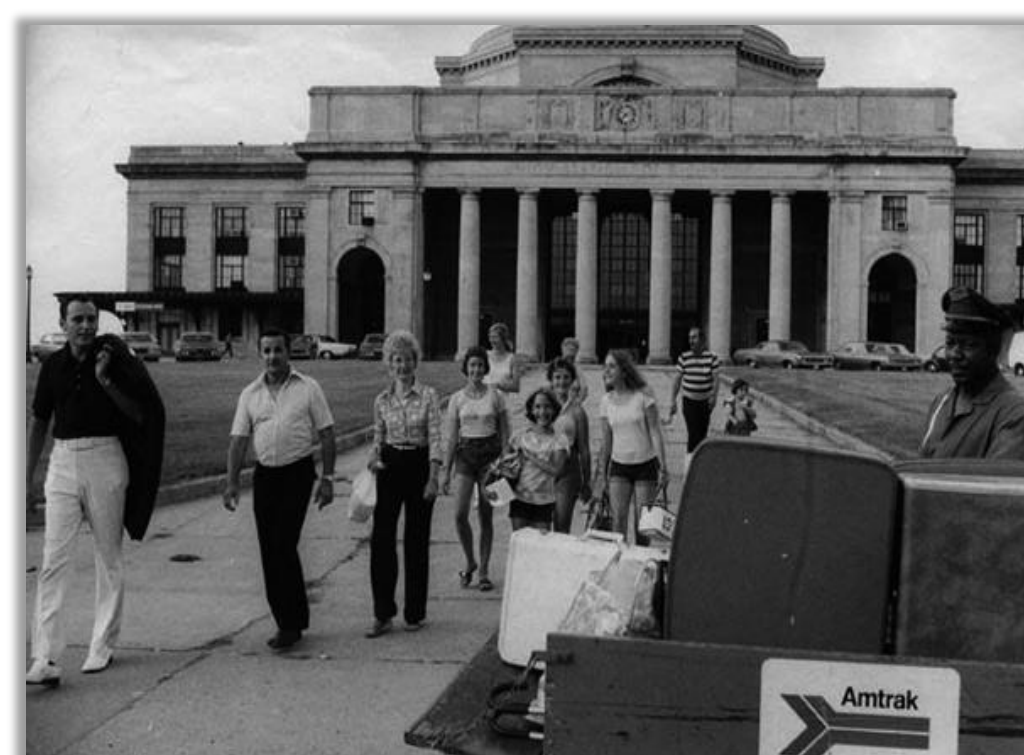
Spirit of Broad Street Station

CS 311 | **Team members:** Rhey Igou, Allyson Yohe, Kyle Sutherland | **Faculty adviser:** Robert Dahlberg | **Sponsor:** Science Museum of Virginia | **Sponsor adviser:** Jim Peck

CAPSTONE DESIGN
EXPO 2017

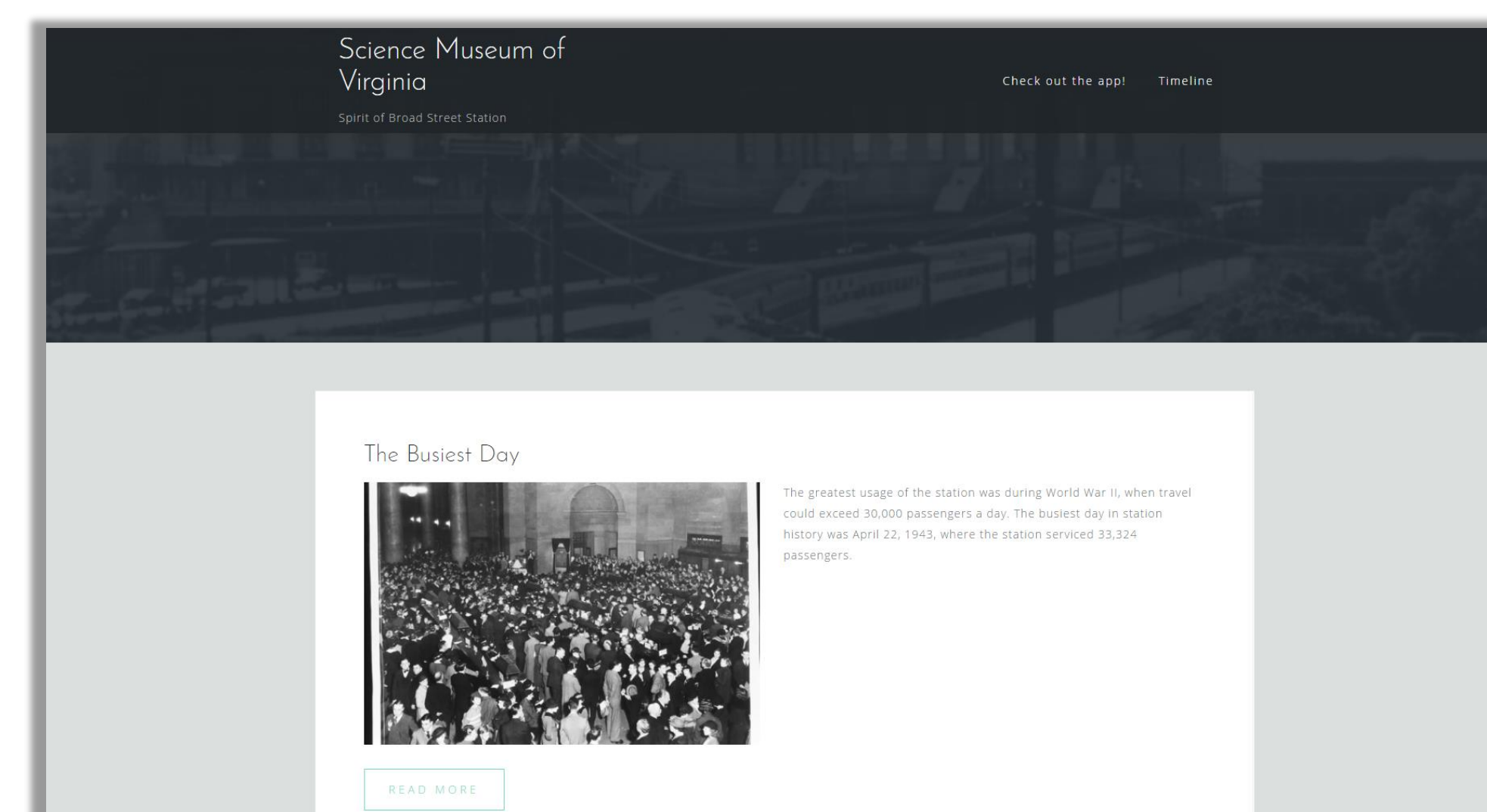
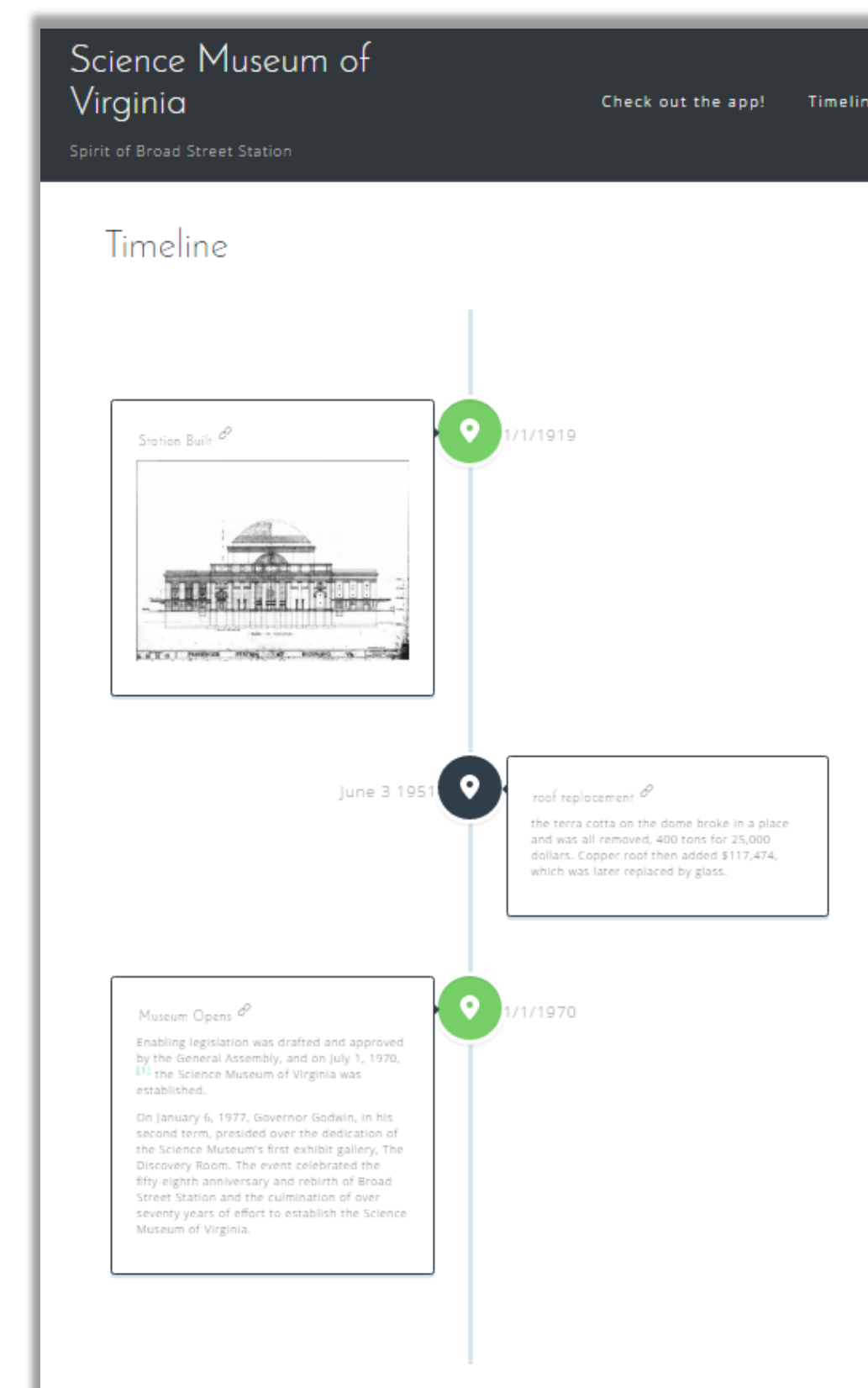
Broad Street Station

- The Museum wants an application for guests to be able to explore the rich history of the building.
- Collection of hundreds of photos of the station throughout time, as well as stories to tell.



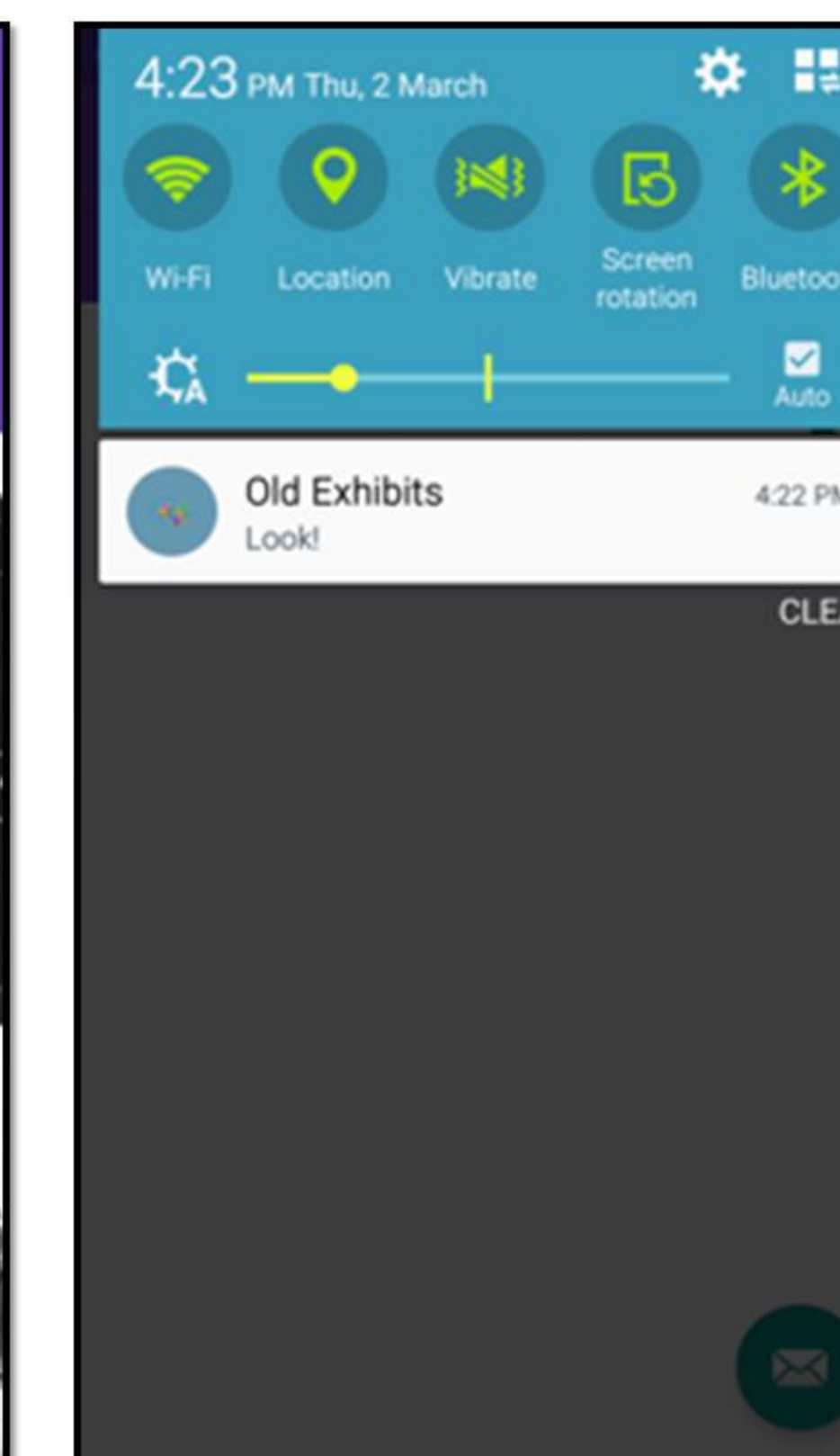
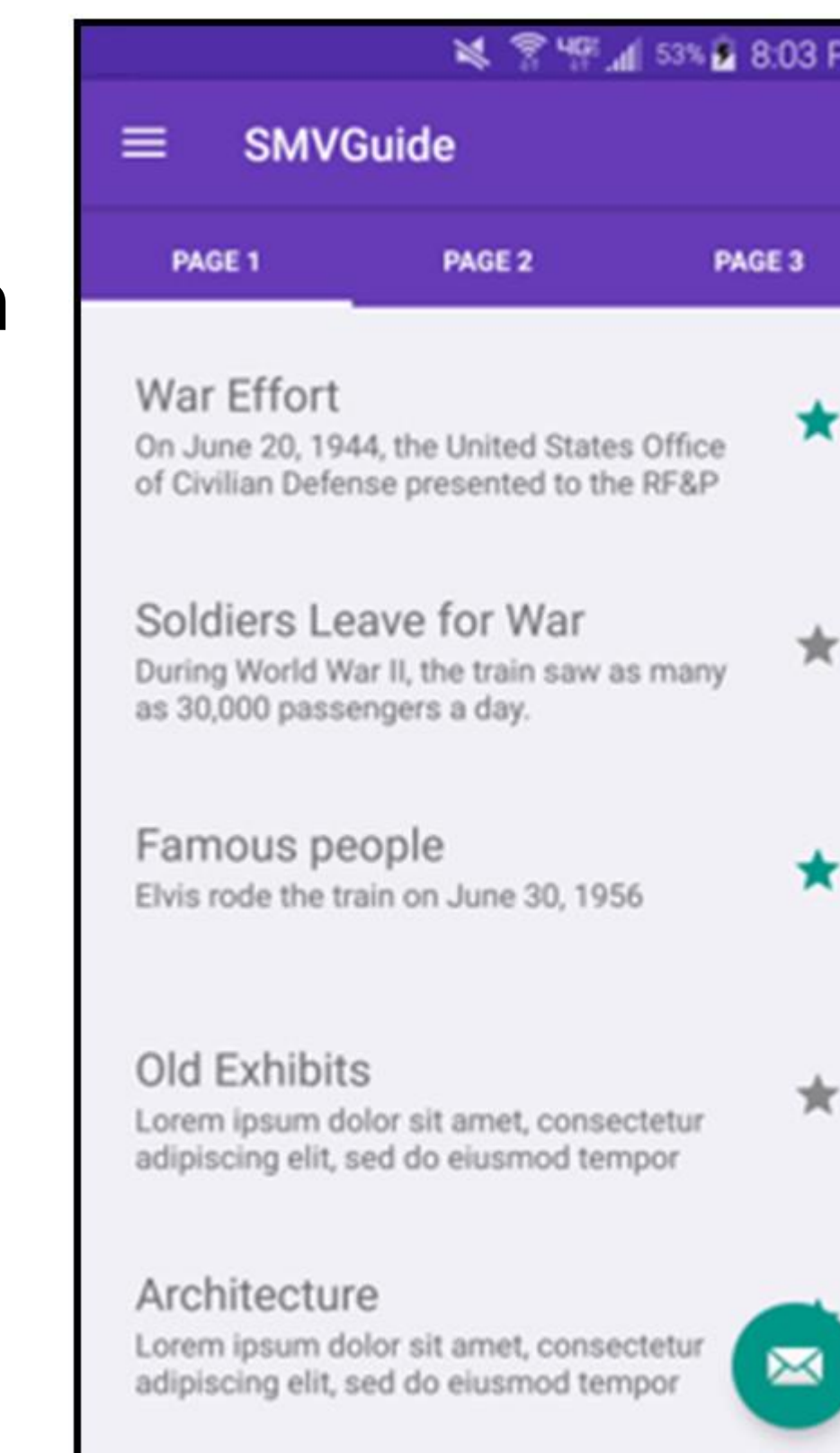
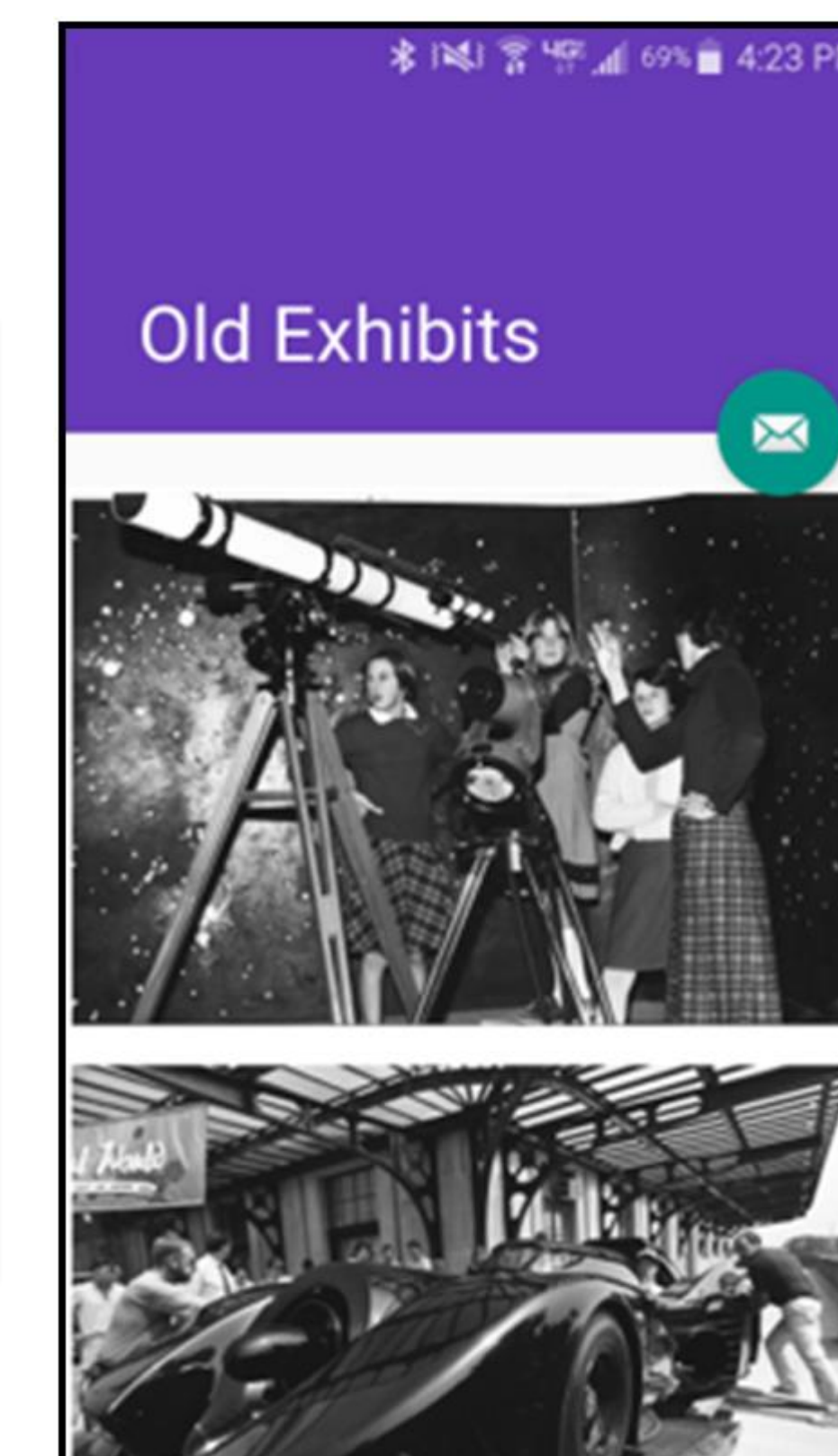
Website

- smvhistory.org
- WordPress site created to host the app content
- Useable at home
- Responsive, can be seen desktop or mobile
- Museum officials can easily add new content
- Allows for other types of content, such as a timeline



App

- Application displays content in more user-friendly interface
- App is lightweight
- Can be downloaded quickly as guests enter the museum
- Allows users to favorite stories



Estimote

- Small, low-power Bluetooth beacons
- Each with a unique ID
- Can be fixed to any surface
- Simple, useable API
- App listens for beacons, placed in various locations around the museum.
- Estimote beacons and posts are linked via a field on the website.
- If the app detects a beacon, a notification is delivered which links to the corresponding page in the application.



Technologies

