



Mapping Stories

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Computer Science - Independent Study

Project Description

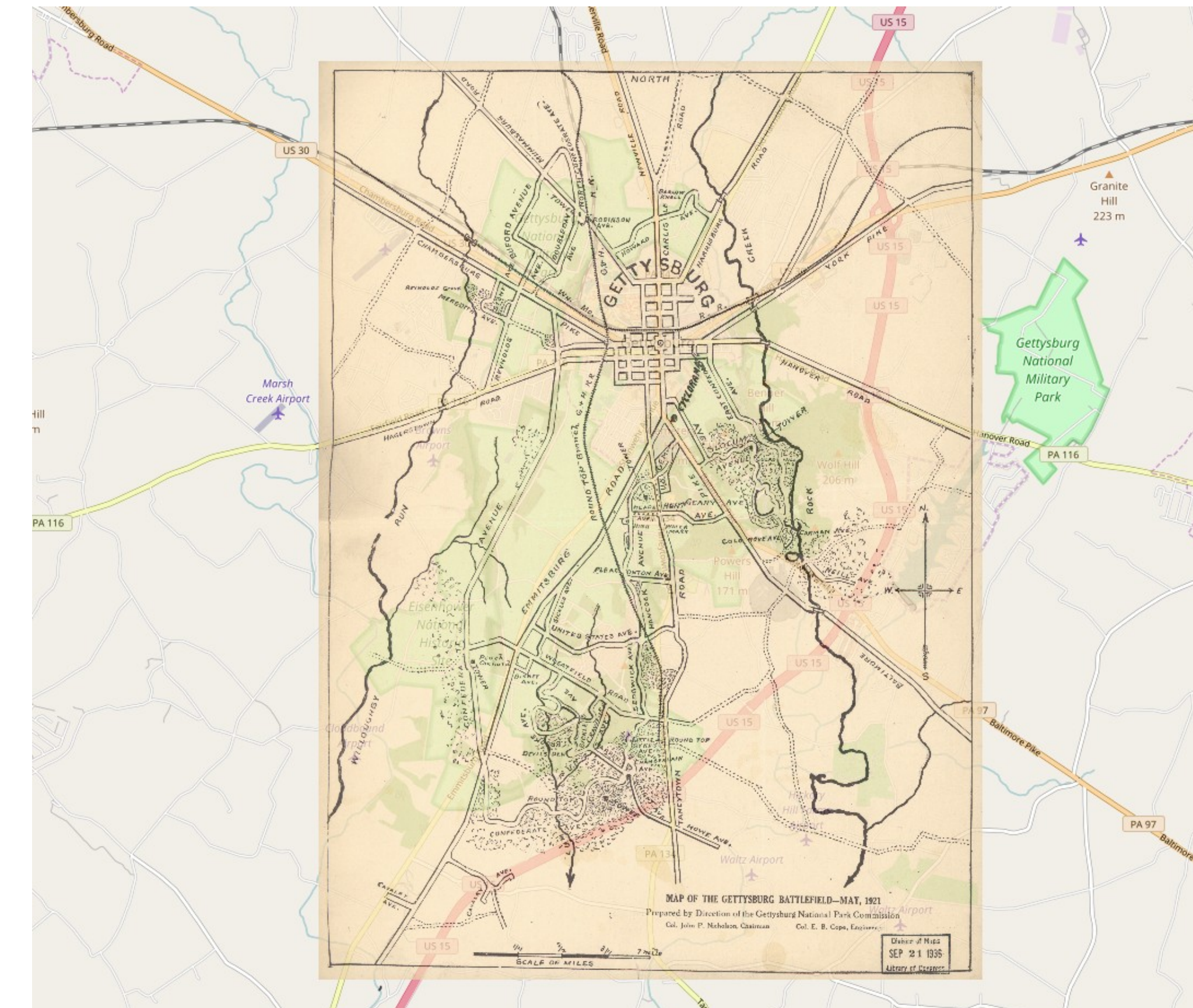
- ❖ Web application that allows users to create stories that highlight the locations of series of events or development of a location over a series of time.
- ❖ Allow users to create an account and control the visibility of the stories they create.
- ❖ Provide a viewer for stories that are public and allow stories to be displayed in the form of widgets in different websites.

Features

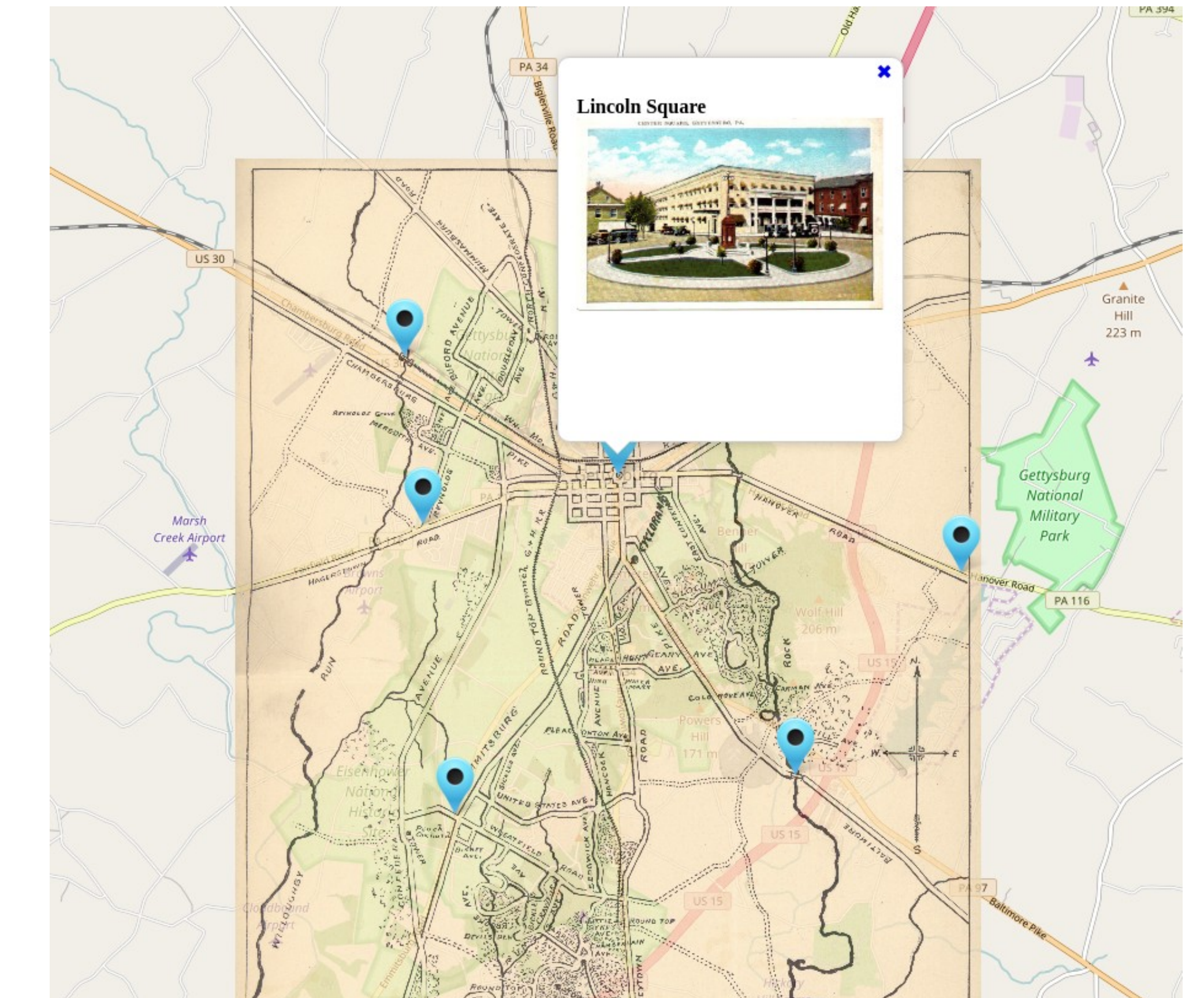
- ❖ Selection of background GIS maps.
- ❖ Multiple Layers and ability to switch between layers.
- ❖ Separate background Image map for each layer.
- ❖ Markers for place/event, associated with a layer, with custom HTML5 content which allows adding all types of medias like images, videos, animations, etc.

Walk-through

- ❖ Create a new Story.
- ❖ Select a Background GIS map for the story and enter Story title and Description.



- ❖ Create a new Layer.
- ❖ Select Layer Image (Optional)
 - Manually enter Image details
 - OR select one from MPO database



- ❖ Add Markers with place/event details to the layer.
- ❖ Add multiple layers and switch between them.

How Application works

- ❖ Ruby on Rails server in the backend with Restful web services.
- ❖ OpenLayers used for displaying Maps, Image layer, and event/place markers.
- ❖ HTML5 and Javascript with Ajax used in the frontend to get information from the server and update any changes to the server without refreshing the page.

Future Work

- ❖ Finish the front end development over the Summer.
- ❖ Develop a story viewer.
- ❖ Integrate the application with Map Picture Overlay Image database.
- ❖ Setup a publicly accessible web server for the application.

Development Tools

- ❖ OpenLayers
- ❖ Ruby on Rails
- ❖ HTML5
- ❖ Javascript
- ❖ JQuery

