COMPSCI 326

Project 3: User Authentication and Interaction

Part 3: Team Write Up

- **Overview:**
  ZooMaps is a web application in which users can see public events happening on the UMass campus. Users can view a map of the campus and join events or create and add them. They can also comment on and rate events. Locations on campus are also open to comments and ratings. From a user's account page, they can view the events they're attending and which events and locations they have liked and commented on.
  From our Project 1 proposal, we've decided to abandon the chat room feature in favor of a comment section for each event. Likewise with recommendations, we've decided that a comment section and the ability to rate an event would simplify the experience and suffice.

- **Team Members:** Miles Black, Jordan Chen, James Curry, Mégane Michaud

- **Github Repository:** https://github.com/m3gan3/ZooMaps

- **Design Overview:**
  Logging in allows the user to interact with the data in different ways: they can create an event, a rating, a message, and they can update an event by attending (or un-attending) it. They can also modify their rating for an event, which will actually erase their previous rating and create a new one. And a user is able to view all of their information on their account page. Logging out redirects the user to the page they left.

- **Problems/Successes:**
  The team successfully used a Trello board to manage the workload. Problems that have arisen are issues relating to Git and Github. Specifically, merging branches and managing the state of the SQLite database file were issues that had to be resolved. The members of the team helped each other resolve Git issues. In addition to Git issues, bugs relating to the web app itself were encountered. For example, changes to the data models were made and team members helped each others debug errors that resulted.

- **Team Choice:**
  We decided to use the Google Maps API. We will display a map that allows users to easily discover and locate user-created ZooMaps events in their area through a map. Users can also drop pins on the map to easily add locations for new events. The map will make our app more engaging and easier to use than a simple list, and also gives us good experience with working with third party APIs and managing API keys.

Part 4: Individual Write Up

Miles Black: I implemented the login and logout pages as well as user authentication on the web app. I helped Megane update all of the static information on the website with dynamic attributes linked to the user that is logged in. Aside from that, I added some pages and views to display future/previous/current events as well as worked a bit on the css to improve the styling of the web app. I believe I contributed about 25-30% of the work.

Jordan Chen: I helped team members with Git, refactored existing scripts, and wrote unit tests. I also wrote and proofread portions of the team write-up. I believe I contributed about 18% of the work.

James Curry:
I helped Mégane decide how we were going to implement our authentication, and that we could just use the existing Django authentication without creating our own user class. I also helped out with some of the CSS styling issues we were having. Most of my time was spent working with the Google Maps API and working on our map page for the final part of the project. I believe I contributed about 18% of the work.

Mégane Michaud:
I started by adapting the models: since we wanted to use the user model from Django, we did not need our own user model and we had to change the foreign key in the other models: I linked our event and other models to the new user model. This took some time, because the migrations were not working at first. I also worked on the forms, in order to create ratings and messages, as well as event, and to update an event guest list. We decided that a user should only rate once an event, so I tried to update the ratings, but I encountered difficulties with updating the date, so instead the view is deleting the rating and creating a new one. I also created other views, in order to display the comments and ratings of a user and of an event, as well as views to parse the future events and the ongoing ones. I protected some of our views, with a login_required decorator for the functions, and LoginRequiredMixin for the classes. I believe I contributed about 35% of the work.