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The URL to the hosted version of our app: ec2-34-235-121-226.compute-1.amazonaws.com

The purpose of our web app is to store and display the names and information of the different soldiers and bomb crews of the 8th Air Force during World War II. We intend this web app to be used by individuals who are interested in learning and writing about bomb crews of World War II. For our site we used jQuery and Bootstrap to help with the front-end framework. We also used Froala Editor to allow the users to enter text in a rich and fully capable manner.

The user begins by using XAMPP to turn on their MySQL Database server and Apache Web server. The user needs to open localhost/phpmyadmin in their browser. From here import the 8thAirforce.sql file so the example data is available. Then the user opens another tab and goes to the base url: http://localhost/cs3744/project4/DamageControl. If the user is not using XAMPP, they can follow the included link to the hosted version of the app, where the sql data is already imported. Both of these options bring the user to the logged-out home screen.

The home page presents the user with the header and footer tabs. The header presents the user with the options of: viewing articles about the 8th Air Force (provided by our history collaborator,) viewing a list of the crews stored in the database, viewing the soldiers stored in the database, a link to view articles about the 8th Air Force, and a tab to view the user's friends and other users that they can friend. The footer gives similar links as the header as well as giving information about the site and the name of our group. The home page also gives the user a short summary about the 8th Air Force and some links to more information about the Mighty Eighth.

In the top right hand corner is a button that gives the user the ability to login or register to the site. Clicking the register button prompts the user with what information they need to register to the web app. Clicking the login button presents the user with a pop up to login. The hardcoded username is "admin" and the hardcoded password is "admin". After the user logs in, they will be redirected to the home page. At the top of the page the login button has changed to a logout button, and the username of the logged in user is displayed above the button.

When the user selects the "Articles" tab they will be presented with a graphic that displays all the stored articles in order of date. To view an article the user will click on the name and redirect to the article's URL. To edit an article's information, select the article and click the edit button. The user can also delete an article this way. To add a new article, select the add

button and enter the necessary information. Articles that reference one another have arrows connecting them.

If the user clicks the "Crews" tab in the header, the user will see a list of all of the crews currently in the database. For the example data we have two crews: the 91st bomb crew and the 381st bomb crew. If the user clicks the name of the crew, the user is redirected to a page that describes the crew. On the crew listing page the user can also click the button to add a new crew to the database.

The user can also click the "Soldiers" tab in the header to see a list of all of the soldiers in the database, ordered by rank. With the example data we have six soldiers in the database. The user can add a new soldier to the database by clicking the add button. Clicking the name of a soldier brings the user to the soldier's detailed information. The user can edit the data of a soldier that is already in the database by selecting the edit button and filling out the information the user wishes to change. A user can also delete a soldier from the database by selecting the delete button.

The "News" tab uses the Chronicling America API to give the user a random article about the 8th Air Force during World War II. If the user wants a new article to read, they only need to refresh the page and a new article will be pulled for them.

The last tab "Users" displays the current user's friends and other users that the current user can follow/friend.

When the user is finished using the web app, they can click the logout button at the top left corner.

Above and Beyond:
Our group went above and beyond by creating and linking extra sql data tables so that we can store and display the soldiers in their crews. The 8th Air Force was comprised of many different crews depending on location and job assignment. The soldiers in each crew had very different experiences during this time. The soldiers also see their crew as family, because of this the crew that they were a part of is a very important detail in their history. For this reason we decided that this needed to be one of our main components of our web app. All of the soldiers and crews in our database are real men that served in the 8th Air Force during World War II.

We also used Bootstrap to create a cleaner and more visually appealing front-end. For the final project, we redid our front end to make it match more with our topic.

We also added a new data table to store articles that our history collaborator provided us. We use these articles to form our 2D graphic. We chose to do this to incorporate as much of our history collaborator's research as we could. The decision to change our 2D graphic to

incorporate more of our history collaborator's work was made in the final week of the project, and ended up being much more complicated than we had anticipated. The graphic is not as developed as we had hoped it would be. However, we thought it would be more important to include more of his data as his grade depends on our use of his research.