As one of our additional features we decided to use MySQL instead of SQLite. There were many advantages of selecting this as our special feature. SQLite is an embedded database, it does not have any network capabilities, therefore using MySQL will allow us to have network access. For our coursework, we can have multiple users on our application. Multiple users can access the database the same time. This will not be suitable for SQLite as the database can lock by performing a write operation. Furthermore, SQLite only allows one application at a time to use the database. So, using MySQL allows more than one website request to access the database concurrently. MySQL is designed for this as it creates a thread for each connection.

MySQL is also secure since it has a lot of built-in security features. This makes it extremely advanced, it can handle large volumes of data, making it appropriate for the coursework as we can display many articles. SQLite has no user management. MySQL has advanced databases, which makes user-support a high priority.

Another special feature we used is AngularJS. This lets us use our HTML as our template language and cover HTML’s syntax to express our application’s components clearly and concisely.  
We used AngularJS in our register, login and update page to ensure that our web application runs smoothly by validating data to prevent any errors from occurring. For instance, in our login page we used AngularJS to check if the login entry is valid or not empty using “pristine” function. The login authentication will not work if fields are empty. We also used AngularJS in our telephone entry to make sure that it contains 11 digits otherwise the user will not be allowed to proceed as the confirmation button will be disabled.

A final feature we used is Bootstrap. We used this in our like and dislike functionality which enhanced the appearance of our web application.

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