StudyHub Manager

StudyHub is the networking web application aimed to ease up the educational collaborations by people who want to use broaden their knowledge and share their experience with others.

The project is designed to help users (mostly students) to overcome difficulties in, such as understanding certain topics on university or poor experience in self-education.

StudyHub provides convenient solutions for such problems by embracing the idea of experience sharing as a powerful learning tool. We believe that the success in learning new things relies on communication. Integration our project within the particular university may increase educational effectiveness.

StudyHub allows for:

- Finding **Events** (meet-ups, study-hubs) on topics of interest, that are allocated on **Categories** for convenience.
- **Subscribing** on certain **Categories** to be able to keep track of new appealing **Events**.
- Creating your own **Events** and associating it with certain **Categories**.

Technical Details

At the moment **StudyHub** is released as a demo version of the web application.

Back-End
Involved technologies: **FireBase** (a web application platform that helped integrate the database into the application).

Front-End:
Involved technologies:
HTML, **JavaScript** and **CSS**. The Front-End is implemented via **Angular 5** framework and **Clarity** library.

The current database is a no-relational database and consists of two fields (“Category”, “User”). The concept of **Categories** is introduced to represent fields of knowledge one can dedicate his time to. An **Event** may be associated with multiple **Categories**.

Within the database each **User** field has a username, email, password and subscription fields.

Further Improvements

Technical Issues
The current state of **StudyHub** project implicates plenty of features to be developed. The main technical issues are based on FireBase problematic behavior when the amount of data reaches large values.

Another difficulty is implied by the fact that the application works with **personal data** (in particular user passwords), which assumes protection by **security algorithms.** Unfortunately, **StudyHub** does not use any hash-algorithms to prevent containing user passwords as a plain text. Further versions of the application will implement effective security algorithms.

Development

Our plans towards future project development contain the following:

- Creating personalized user pages, on which basic info (name, university, preferable **Categories**, visited **Events** etc.) is placed.
- Using **Neural Network** for matching content with the user (i.e increasing search effectiveness)
- Sharing **useful information** among users (links to books, articles, educational videos and online courses)

Used License: Creative Commons