Web server programming assignment

The course Web server programming includes exercises and tests in addition to course work, which runs through the life cycle of the server and carried out an online application.

Assignment has a weight of 25% of the course of the score.

Utensils

Exercise will take a course on work equipment (Java, Spring, Heroku, Heroku PostreSQL, ..).

* The application source code should be added to Github version control
* It must be configured so that the automated application testing Travis service.
* When associated with GitHub addition to the changes go through tests, the application will automatically switch to the new version of Heroku.

Teamwork

The course is recommended for assignment to do with the group. The appropriate size of the group of about 3-4 people. If necessary, pair and individual projects are possible. Please note that the group members get to choose freely (\* ahem \* course participants).

Good tools for discussion between a group of Kumpulan corridors, downtown cafés and a variety of mobile apps like Slack. Worked want to manage, for example, Trellossa or GitHub.

The assignment topic and requirements

Exercise The topic must choose for yourself, or you can choose from the following topics.

Image service (eg. Instagram)

Chat service (eg. Snapchat)

Battleships

Teaching the game (eg. Mathematics learning game)

Better PSP (PSP-how the current design could be improved?)

... Own topic

Each work should be carried out at least the following minimum requirements:

* A database in which at least five targets. Of these, at least one connection is flat.
* Automatic test application.
* Feed validation.
* Separate production and testing profiles.
* Authentication and roles.

More topics course database application page https://advancedkittenry.github.io/suunnittelu\_ja\_tyoymparisto/aiheet/index.html

documentation

The assignment documentation will be added to the GitHub project folder "documentation". The documentation must include a description of the application, use cases implemented and a description of the measures implemented and not the features.

Return

Work will be returned to 18.12. By avihavai@cs.helsinki.fi address titled "Web-server programming assignment is submitted". Each day's delay reduces estimates of 50p.

Recovery email must contain the names, student numbers, a brief textual description of the work done, as well as links to application-Github version control aside, Heroku service and the status of the tests impressive Travis page. Write to e-mail the information, if you wish, that your application should not be used as an example of the assignments made in the course.

NB! After the return of your work is done Peer review of two other work. This more steps later.

Review

The application will work Heroku and GitHub source must be located in order to retrace the work be judged and to be acceptable. All in all, the assignment can get 300 points.

Minimum requirements are met: 100p

Usability: 0-75p

The application is used

the pages provided by the application are logically built and pages are easy to find

User input is validated

Possible error messages are understandable

The application is also used for larger data volumes (pagination, search, information, ..)

Bonus: 25 pts - the possibility of application in more languages

Maintainability and Quality: 0-75p

Configurations, as well as the local development environment and the production environment

Comprehensive self-tests (see Fig. Http://dev.macero.es/2016/02/06/test-coverage-analysis-for-your-spring-boot-app/)

Quality of the code ok (not copy-paste code, etc., see. Eg. Https://codebeat.co/)

Application digested with clear responsibilities categories

Commented code (and named variables, etc.) so that engrossed the course participant or kurssilaisryhmä understand it

Prosessiautomatisaatio: 0-25p

Github-Travis Heroku -kytköksen functionality

documentation 0-25p

Good, firm documentation

Github-propagating messages describe the changes and additions to the

Database Application page of the course is also useful and worth keeping an eye on the documentation pondering: https://advancedkittenry.github.io/index.html