**Minutes of bike team project-backend team meeting**

Place of Meeting: Room A, 5/F Library of UoG

Date and time: 11:00am to 1:00pm 06/10/2019

Attendees: Kei, Long, Wang

**Discussion:**

* -Flask is used instead of dJango as it is more light weight and simple. That is suitable for our project scale size.
* Walkthrough prototype build by Flask framework, involving user interface templates, views, and database access layer that can further elaborate in our project. Codes have been put to github as following. <https://github.com/kkto28/bike_grp_prj>
* Review again our database structure (ref: bikeRentingdb\_20191006.pdf), revised copy includes more consideration on the user interfaces discussed in previous team meeting.
* Define work to do on backend side, including 1) integration/business flow/logic implementation, 2) Data adaptation layer implementation, 3) data visualization. Wang will responsible for 2); Long will responsible for 2) & 1); Kei will responsible for 1)
* Unit testing is required that can help on integration
* Regular backend team meeting is planned on every Sunday morning, with session that we will perform coding together. Wish can quickly resolve problem in effective way by face to face communication.
* Team will proceed next stages e.g. design and coding, based on discussed use cases (ref: bike\_prj\_usecase\_v1.doc)

**Involvements:**

|  |  |
| --- | --- |
|  | Done By |
| Database design, web framework review and selection | Long |
| Web framework selection, database design reviewing | Wang |
| Flexibility study, build framework based on Flask | Kei |

**Planning for coming week:**

|  |  |
| --- | --- |
|  | Action By |
| Define interfaces required in data adaptation layer, that Wang & Long can further review and do implementation | Kei |
| Based on existing database structure, write some codes to access it e.g. read, write, update, create. That once data adaptation layer interfaces defined, can kick off implementation. | Wang |
| Help on data adaptation implementation, further review database & do some studies on data visualization | Long |

**Highlights for further review and comment:**

* Have shared revised database structure (bikeRentingdb\_20191006.pdf), frontend team can further comment. Changes can be made during different cycles of development.
* As per last meeting, visualization can be implemented by using javascript framework, instead of python matplotlib. We can further discuss on team’s approaches and plan on related tasks.
* <https://github.com/kkto28/bike_grp_prj> with codes on flask framework, Frontend team can review and give comment. It is an initial framework that can be further changed/elaborated as project on-going.
* Assuming Frontend will send data to server through http post. Post fields can be agreed by both team in coming meeting.
* Frontend team will responsible for GUI implementation, with deliverables in blue area e.g. html under templates folder; css, images, other resources used in web under static folder. Backend team will perform server side integration in project green area e.g. dataAccess.py, views.py, bikeRenting.db. (Frontend team can further review and comment)

