

COMP6703001 – Web Application Development and Security
Final Project Specification
Even Semester 2022

Overview

Your goal is to **create a working web application which utilizes a RESTful API** with the following constraints:

1. Your team may only consist of 2 people, with each person having a **specific** role.
2. Your project must be a web application that has a frontend, APIs, backend, and at least one database.
3. Your team could choose any programming/frameworks/library/technology for your project solution, but need to be listed properly in the Proposal and README file of your FP repository
4. Your project needs to have user authentication and SSL implementation.
5. Your project needs to have a heuristic evaluation with at least one revision. Make sure you plan time for this.
6. Your project must have a strong focus on design, primarily in user experience (UX), user interface (UI), and responsiveness.
7. Your project solution should be hosted online with a domain for min periods at least 3 weeks (from week 12)
8. Your project must have a **real life problem** and implement “**Nodeflux’s API/technology**” as part of the application solution.

Part A: Proposal (in A1 Poster size)

Due - April 6, 2022, 11.59PM

Upload a **one-page** PDF proposal (A1 poster size) to [this Google drive folder](#) containing the following:

1. Team Name
2. Team Members (Names and StudentIDs)
3. Poster Project Proposals with the following information:
 - App Name
 - Problem Statement + Motivation
 - User problems you are solving
 - Basic interactions your app will support in service of goal
 - How your app is different
 - Design of the app(e.g: Technologies used and Wireframes/Storyboarding of the propose apps)

There is no specific format for the poster, but they should cover all the information above. Please use your own creativity and knowledges for this poster. And don’t forget to put BINUS International [logo](#) and Course Information (COMP6703001 – Web Application Development and Security).

Please name your PDF file with format: “*FP_TeamName_AppName.pdf*”

Part B: Functional Prototypes Evaluation

Due - June 6, 2022, In Class

- During week 12 period, all teams will perform simple and independent heuristic evaluations of each other's prototypes and give feedback.
- Prototypes should capture at least three of the key interactions/features in your team's web app solutions.
- List key interactions/features must be provided by your team and also can be added by the evaluators.
- The evaluators need to create **report finding** (positive and negative) based on list key interactions/features (in PDF file) and send it back before week 13. Example and guideline of heuristics evaluations can be found [here](#).
- All errors found in the test need to be fixed before the project submission
- The distribution of the team evaluator will be assigned based on your team number + 1. If your team is the latest number, your work will be evaluated by the first team number. (e.g.: your team number is "3" the evaluator team will be team number "4")

Part C: Final Presentation

Due - June 13, 2022, 11:59pm for submission of deliverables

One day before the final presentation day, each team is required to submit:

1. Source Code for the Project / URL to GitHub Repository (*make sure you have information of your project solution under README file on your repo*)
2. URL to your hosted project
3. No longer than 5-minute video detailing your web app's purpose, design, and functionality
4. ~~Peer evaluation~~

Note: Please write down the URLs information on the PDF file, and compress it together with video and peer evaluation report (into zip file) with format "FinalSubmission_TeamName_AppName.zip" before you upload it to this [this Google drive folder](#)

Due - June 14 or 16, 2022, 08.30 – 12.10, Presentation Day

On the presentation day, each team is required to present their working FP solution. Everyone is invited to come to Auditorium FX (if we could do it offline) or by zoom (detail TBA later) on June 14th or 16th June 8.30-12.10 to watch presentations given by team.

The presentation order will be assigned randomly (using software tool) and will be announced in the morning of the presentation day. So please be ready at any time.

The presentations will consist of 5 minutes for the demo and 5 minutes for a Q&A/feedback session. Industry experts from **Nodeflux** will be present in order to judge your projects and ask questions. Please expecting there will be two different examiners for the presentation day (from **BINUS** and **Nodeflux**)

At least one member of the team must present and everyone are expected is submitting and attending the FP presentation day on time; otherwise, the team will be disqualified and there no additional additional/replacement time for this FP submission and presentation day

Video Requirements

1. 3 to 5-minutes length max
2. Should focus on design and functionality
3. Demo the important user flows
4. Voice-over should tell a concrete story: user, problem, and how your app solves it
5. Communicate the motivation behind design decisions (e.g. *how did heuristic evaluation play a role in changes that were made to the interface?*)

Grade Breakdown (Rubric will be provided on week 12)

- proposal/poster A1 size (10%)
- video (10%)
- design (UX, UI, responsiveness, evaluation) (20%)
- front end implementation (15%)
- back end implementation (15%)
- user authentication and SSL implementation(10%)
- APIs implementation(5%)
- hosted Live with domain (10%)
- additional tech implementation (5%)

Other Important Information

- Project will be in group consist of max 2 students (except for the last group) at least before week 3 end (5th of March 2022).
- Only registered team is allowed to submit, present and be scored for the FP activities
- No topic changing allowed after the proposal submission
- No lateness submission will be scored, no excuse are accepted or being responded after the due date/time
- Make sure to acknowledge other people work in your code and documentation if you use them in your FP solution
- Please utilise the Discord server provided for FP discussion and activities. Individual score might be added into your FP at the end of the semester based on your activities and progress.