

Singidunum University, February 10th, 2020 Professor: prof.dr. Djordje Obradovic Web Programming Class Project

Quick Project Summary

Yügen is a single-page web application that focuses on making traveling stress-free by incorporating main aspects of travel necessities such as **transportation and accommodation** into one app (*definitely not stolen from Booking*).

Some of the app functionalities are:

- → User Authentication
- → Accommodation reservation
- → Flight ticket purchase
- → System Administration

Types of users:

- → Admin
- → Regular User

More on these in the following slides.





Authentication And Registration

Authentication is done through JWT (JSON Web Token) and cookies ...

→ Login

Both Regular User and Admin login are done through the same interface. This is accomplished by checking for the user type after authentication.

→ Registration

Regular User registration is accomplished by requiring input of non-existent email address.

What tools and technologies have been used to build this

project?



By tools and technologies, what is meant is: programming languages, database software, frameworks etc.

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Languages

- Python
- Javascript _{JS}
- HTML 5
- CSS
- SQL

Frameworks

- Flask (backend) Flask
- AngularJS (frontend)

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Libraries

- Bootstrap B
- UI-Router
- UI-Bootstrap

Software

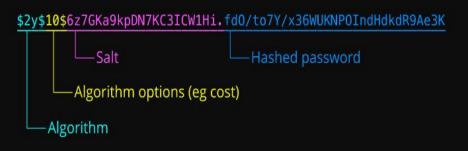
MySQL POWERED BY MUSQL



Password security is accomplished by using

bcrypt password hashing function.







The database is populated with

194 countries,14918 cities,7392 airports,1572 airlines

for simulating real-life data management.





Regular User

Below are Regular User's functionalities

- Flight Ticket Purchase
 Users can purchase flight tickets by picking an origin and a destination city...
- Accommodation Reservation
 Users can find accommodation by selecting a city, and the amount of stars a certain accommodation has. After a quick search, the user will be able to make a reservation.



Admin

Below are Admin's functionalities

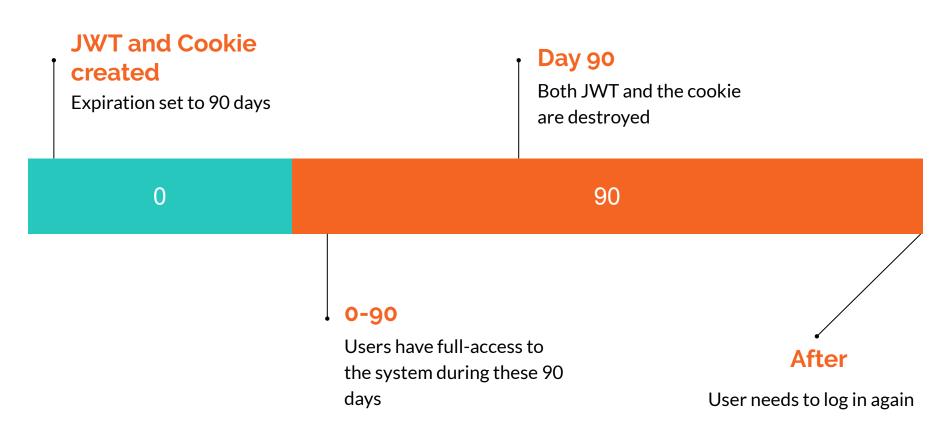
→ Homepage

Homepage is consisted of 3 tables (users, accommodations, flights). Users can be deleted but not edited because of the JWT validation. Accommodations and Flights can be both deleted, and edited.

→ (Admin, Accommodation, Flight) Addition

Functionality of adding new admins, accommodations, and flights.

JWT and Cookie



Three-Tier Architecture

PYTHON

FLASK

Application Tier

ANGULARJS

HTML

CSS

JAVASCRIPT

Presentation Tier

MYSQL

Data Tier



Thank you!

Interested in testing Yūgen? Go to https://gitlab.com/bullFroggie/y-gen

