



ReVUW

Diana
Nathan
Naomi
Sam

A course review platform by NoThink



Repo Link:

<https://github.com/CRUDApplication/ReVUW>

Website Link:

<https://revuw.website/>

Workload distribution (Core, Completion, Challenge, Features)

Tasks	Assignee	Status
Implement basic user registration functionality.	Sam	Done
Your application must be able to control the complexity of the password chosen by the user.	Nathan	Done
Implement basic user login / logout functionality.	Sam	Done
Use cloud based NoSQL databases (such as MongoDB, Firebase Real-time database).	All	Done
Allow viewing items without any authentication.	All	Done
Support dynamic endpoints for various operations (get, put, delete) on the resources specific to your application.	All	Done
The web application that renders HTML pages should include some functionality implemented using client side JavaScript code	Sam & Diana & Naomi	Done
Allow use of OAuth / OpenID Connect and online service	Sam	Done
Host your server successfully on a cloud platform, so that your web application / web service can be easily accessed from anywhere in the Internet.	Sam	Done
Use session and cookies / JWT as applicable for user authentication and authorization and allow only authenticated and authorized users to Create, Update or Delete items.	All	Done

Workload distribution (Cont.)

Tasks	Assignee	Status
Skeleton code and front end code for courses and reviews	Diana	Done
Front end styling: Sign in page, Homepage, Courses page, Profile and Review page	Naomi	Done
Integrate microservices	Sam	Done
Build an API gateway for your application	Sam	Done
Test your Authorization middleware using any test framework like Mocha or Chai.	Sam	Done
Measure the response time of each API function provided by your server application under varied workload.	Diana	Done
Show the variation of response time under varied workload by using Bar charts	Diana	Done
Evaluate the performance of the database at the server side. Determine whether the database poses as a performance bottleneck of your web application	Diana	Done
A clear privacy consideration needs to be integrated into the design and implementation of your web application.	All	Done

Workload distribution (Cont.)

Tasks	Assignee	Status
Implement a simple recommendation service to recommend relevant resources	Naomi	Done
Implement email loop for password reset.	Nathan	Done
Support a timeout function: when users stop using the application for a certain period of time, they need to login again.	Sam	Done
Implement course saving feature	Nathan	Done
Create user profile page	Naomi & Diana	Done
Search for course functionality	Diana	Done
Rate and review limit functionality	Diana	Done

Variation of response time of API functions under varied workload

API Function	Workload	Response Time (ms)
GET /	Low	456
GET /	Moderate	465
GET /allcourses	Low	253
GET /allcourses	Moderate	268
GET /courses/:courseCode	Low	285
GET /courses/:courseCode	Moderate	299
GET /auth/signin	Low	268
GET /auth/signin	Moderate	294

Variation of response time of API functions under varied workload

