CAB432 A01: REST API Project (Video)

30 Points Possible





Unlimited Attempts Allowed

∨ Details

Submit your video demo of CAB432 A01 here. The teaching staff will use this Canvas Assignment to provide you a mark and feedback.

This is very important: make sure that you have actually clicked the Submit button.

Uploading is not the same as submitting. After you upload you will need to **click the Submit button**. You might have to scroll down to see it. This is actually a problem that affected dozens of students last year.

Note: If you run into issues with uploading as media, try uploading as file. The file type is restricted to mp4.

∨ View Rubric

REST API project - marking criteria

Criteria	Ratings			Points
Core - Containerise the app	3 pts Full marks Source code contains a Dockerfile. A Docker image has been created for the application server and is present in the CAB432 AWS account ECR.	1.5 pts Half marks The Dockerfile may be missing or not suitable, or the image is not present on ECR.	O pts No marks No evidence of using a Docker image or no/insufficient evidence presented.	/ 3 pts
Core - Deploy the container	3 pts Full marks Application Docker container has been deployed to an EC2 instance from ECR.	1.5 pts Half marks Application is running on EC2 but not within a Docker container, or running within a Docker container but not on EC2.	O pts No marks Application is not running on EC2 or within Docker, or no/insufficient evidence presented.	/ 3 pts
Core - User login	login method (eg. username/password). Subsequent requests are authenticated using JWT.	check for authentication, or user login method missing (eg. using hard coded token rather than obtaining via login.) Distinctions between users is minimal or not relevant to the main application functionality. Implementation problems that are of moderate severity.		/ 3 pts

REST API project - marking criteria

Criteria	Ratings			Points
Core - REST API	3 pts Full marks Application uses the full suite of HTTP features, including methods, headers and responds with appropriate status codes. Endpoints are appropriately labelled and are logical.	1.5 pts Half marks The application has an API but not all concepts of REST, or not all features of HTTP are appropriately utilised.	no/insufficient evidence	/ 3 pts
Core - Data types	two different types of data, not including user login data, that have different	1.5 pts Half marks Only one type of data is used, or the difference between types of data used is not significant. Implementation problems that are of moderate severity.	O pts No marks No data is stored or no/insufficient evidence presented.	/ 3 pts
Core - CPU intensive task	3 pts Full marks Application uses at least one CPU intensive process that can be triggered by AP requests. The process is highly relevant to the functionality of the application.	•	0 pts No marks There is no CPU intensive process or no/insufficient evidence presented.	/ 3 pts
Core - CPU load testing	2 pts Full marks Demonstration of a script or manual method for generating enough requests to load down the server to > 80% CPU for an extended time (eg. 5 minutes)	but does not load down > 80% CPU, or can only do so for a short amount of time.	O pts No marks No method of loading down the server or no/insufficient evidence presented.	/ 2 pts
Additional - Extensive API features	2.5 pts Full marks The API has features like versioning, pagination, filtering and sorting. These are consistently implemented across all necessary end-points.	1.25 pts Half marks Some advanced features have been attempted but are not fully functional.	O pts No marks Not attempted or no/insufficient evidence presented.	/ 2.5 pts
Additional - External API(s)	2.5 pts Full marks The application makes use of at least one external API either as at least one primary source of data, or as at least two sources of relevant but secondary data (such as recommendations for related external videos along with thumbnails).	external API as a source of secondary data, or there are problems with the implementation.		/ 2.5 pts

REST API project - marking criteria

Criteria	Ratings			Points
Additional - Additional types of data	2.5 pts Full marks The application uses three or more kinds of data (including two from core criteria) that have distinct requirements for storage and use that would be best suited to distinct cloud services.	the requirement for more than two kinds is not well argued, or there are	O pts No marks Not attempted or no/insufficient evidence presented.	/ 2.5 pts
Additional - Custom processing	2.5 pts Full marks The application features a significant amount of newly implemented custom domain-specific processing, such as a custom machine learning model. If the implementation uses existing code (eg. a ML framework or physics engine) then there is a significant amount of customisation or configuration specific to the application.	customisation or configuration.		/ 2.5 pts
Additional - Infrastructure as code	2.5 pts Full marks Use of infrastructure-as- code technologies such as Docker compose, AWS CDK, or AWS Cloud Formation to deploy the application to AWS. The application can be fully deployed, including launching a EC2 instance and all necessary containers, from a single IaC command.	1.25 pts Half marks IaC is used to launch an EC2 instance, or Docker containers, but not both.	O pts No marks Not attempted or no/insufficient evidence presented.	/ 2.5 pts
Additional - Web client	well designed, full featured	1.25 pts Half marks The web client is functional but does not make use of esome important endpoints or does so in a trivial manner, or the design is not very usable for intended use cases.	no/insufficient evidence presented.	/ 2.5 pts
Additional - Upon request	2.5 pts Full marks The features is well implemented, according to the standard agreed upon ir advanced with the unit coordinator.		O pts No marks , Not attempted, no/insufficient evidence presented, on not agreed upon in advance with the unit coordinator.	/ 2.5 pts

REST API project - marking criteria

Criteria Ratings Points	
-------------------------	--

Total points: 0

Choose a submission type







Submit assignment

TEQSA PRV12079 | CRICOS 00213J | ABN 83 791 724 622