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## Websys Quiz 1 Part 1

1.1 Explain in detail (at least one paragraph of at least 5 sentences) what is meant by a Universal Interface in a REST API. (7 points)

Representational State Transfer (REST API) can be accessed by the clients by using HTTP calls for application requests. The HTTP requests are defined as operations for getting information from the resources such as the GET method which retrieves data from the database. The responses that the APIs return are in the JSON format leading to easy data manipulation. The REST APIs can be accessed and are given a Uniform Resource Identifier (URI). These URIs contain the information that is needed to connect to the API and get the data from it, so it contains the host name of where the service is running and then the port number. The whole utility of having a more universal interface allows developers to use HTTP verbs and only need to know that for basic data pulling.

Part 1.1 Citations:

September 19, 2024 In Class APIs Slides - url not sharable

<https://www.telerik.com/blogs/rest-apis-what-they-are-all-you-need-know#:~:text=What%20is%20a%20REST%20API,is%20usually%20disparate%20and%20unrelated.>

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Methods>

<https://www.ibm.com/docs/en/streams/4.3.0?topic=reference-uri-patterns>

1.2 Explain in detail (at least one paragraph of at least 5 sentences) the three primary roles of Scrum and what each responsibilities are. Which role(s) are you, and why? Which role(s) am I (and the TAs) and why? (8 points)

The scrum team has three primary roles which are the product owner, the scrum master, and developers. The product owner is the one in charge of making the product goal for the scrum team, creating the product backlog and communicating them in an effective way, making the product backlog easily understandable and also ordering the items in the backlog itself. They are basically in charge of making sure the product is delivered correctly. The scrum master makes sure that the team is following the scrum framework and also ensuring that the team moves to completion of increments. The developers are the group responsible for creating and developing the actual product. They follow the goals that they set themselves for the sprint and hold each other for accountability. Our team (Team Awesome) are the developers as we are in charge of delivering the term product and follow the sprint guidelines that we set for ourselves. The role of Dr. Callahan and the TA are the product owners and the scrum master as they help with the product backlog and also with sprint retrospectives which are held at every end of sprints.

Part 1.2 Citations:

In Class git learn lecture Slides - url not sharable

<https://scrumguides.org/scrum-guide.html#developers>

1.3 What command would you use to change the ownership of a file or directory on a Unix machine (such as your Azure VM)? Show me a complete command invocation to make a directory named /var/www/html be owned by a user named callab5 and a group also named callab5. (5 points)

`sudo chown <user> filename`

The chown command will change the ownership of the file/directory to the user specified. Since we need to change the ownership of the root file then we need root access with the sudo keyword.

ssh into vm

`sudo chown callab5:callab5 /var/www/html`

Part 1.3 Citations:

<https://linux.die.net/man/1/chown>

<https://docs.oracle.com/cd/E19683-01/817-0365/secfile-3/index.html>