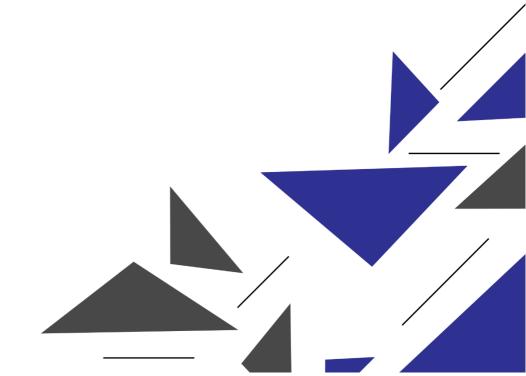


CSI3023

Advanced Server-Side Programming

Winter Semester 2023 - '24

Digital Assignment - 2



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1) Dismbs about kest Frameworks and emplain various kest Methods.

Rest Frameworks:

Representational State Transfer frame works are tools that facilitate the development of web services following the poinciples of REST architectures. Rest is an architectural style that relies on stateless communication between dients and servers, using standard HTTP methods. These frameworks provide a set of conventions, guidelines, and tools to streamline the process of building RESTful APIs (Application Programming Interfaces).

Some popular REST frameworks include:

* Djargo REST Framework (DRF):

- * Built on top of the Django web framework.
- * Offers a powerful and fremible toolkit for building web ADIS.
- x provides serialization, authentication, permission, and view classes for handling HTTP methods.

* Spring Boot:

- x A part of the larger spring Framework for JAVA applications.
- * Simplifies the development of production-ready applications. x Offexs annotations and conventions for cocaring RESTful APIs

x Enpressis:

- x A lightweight node je framework.
- * Used for building web applications and APIs. x Provides middleware for hardling RESTFUL routes and

requests.

REST Methods (HTTP Methods):

RESTFUL APIS use various APTP methods to perform different actions on resources. These methods are also known as HTTP verbs and play a cruial role in defining the operations that ear be performed on a resource. Here are the primary REST methods;

* GIET:

- * Used to retrieve information from the server.
- x should not have any side effects on the server.
- x Eq: GET lusers' retrieves a list of users.

- x Used to submit data to be processed by a specified resource.
- x Often used for creating a new resource.
- * Eq: Post/users' creates a new uses.

* PUT:

- * Used to implate a resource or execute a new resource if it does not exist.
 - * Typically updates the entire resource.
 - * Eq: 'PVT/ WSC85/123' updates the uses with 10 123.

* PATCH:

- * similar to PUT but used to update a resource partially. x only updates the specified fields.
- x Eq: "PATCH /49exs/123" updates specific fields of the user with 10 123.

* DELETE:

- x Used to request the removal of resource.
- x Eq: 'DELETE / USERS/123' deletes the user with 10 123.

- x Used to describe the communication options for the * OPTIONS:
- x can be used to check the allowed methods or other target service. information about a resource.
- * Similar to GIET but only retrieves the headers of the * HFAD:
- x useful fox checking, resource information without response, not the actual data. downloading the entire payload.