COE 558: Cloud and Edge Computing

Term 212

Homework 3

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| Elements of a REST API | |
| Path | …/ |
| HTTP Method | GET |
| Meaning of HTTP Method in the context of the service | This API will display a web page to the user when he try to access it from browser |
| JSON object | N/A |
| HTTP Response code | 200 OK response code |
| Header fields | 'Content-Type': ‘text/html’ |

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| Elements of a REST API | |
| Path | …/add |
| HTTP Method | POST |
| Meaning of HTTP Method in the context of the service | This API will accept json format containing two numbers then the server will handle the request and do addition operation and save the operation in the mongoDB and return the result in the response as json |
| JSON object | {  number1: '',  number2: ''  }  {operation:" add",result: result} |
| HTTP Response code | 200 OK response code |
| Header fields | 'Content-Type': 'application/json' |

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| Elements of a REST API | |
| Path | …/sub |
| HTTP Method | POST |
| Meaning of HTTP Method in the context of the service | This API will accept json format containing two numbers then the server will handle the request and do substruction operation and save the operation in the mongoDB and return the result in the response as json |
| JSON object | {  number1: '',  number2: ''  }  {operation:" sub",result: result} |
| HTTP Response code | 200 OK response code |
| Header fields | 'Content-Type': 'application/json' |

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| Elements of a REST API | |
| Path | …/mul |
| HTTP Method | POST |
| Meaning of HTTP Method in the context of the service | This API will accept json format containing two numbers then the server will handle the request and do multiplication operation and save the operation in the mongoDB and return the result in the response as json |
| JSON object | {  number1: '',  number2: ''  }  {operation:" mul",result: result} |
| HTTP Response code | 200 OK response code |
| Header fields | 'Content-Type': 'application/json' |

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| Elements of a REST API | |
| Path | …/div |
| HTTP Method | POST |
| Meaning of HTTP Method in the context of the service | This API will accept json format containing two numbers then the server will handle the request and do division operation and save the operation in the mongoDB and return the result in the response as json |
| JSON object | {  number1: '',  number2: ''  }  {operation:" div",result: result} |
| HTTP Response code | 200 OK response code |
| Header fields | 'Content-Type': 'application/json' |

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| Elements of a REST API | |
| Path | …/history |
| HTTP Method | GET |
| Meaning of HTTP Method in the context of the service | This API will return the latest 10 operations in json format |
| JSON object | {  createdAt: "2022-04-09T20:44:01.499Z"  firestNumber: 4  operation: "+"  result: 6  secondNumber: 2  \_\_v: 0  \_id: "6251f0117fb69bfeec3ea3fe"  } |
| HTTP Response code | 200 OK response code |
| Header fields | 'Content-Type': 'application/json' |

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| Elements of a REST API | |
| Path | …/bydate |
| HTTP Method | POST |
| Meaning of HTTP Method in the context of the service | This API will accept json format containing a date then it will return any operation after this date |
| JSON object | {  {'date': '2022-03-30T15:54:35.659Z'},  }  {  createdAt: "2022-03-30T15:54:35.659Z"  firestNumber: 6  operation: "/"  result: 2  secondNumber: 3  \_\_v: 0  \_id: "62447d3b01d551da20578471"  } |
| HTTP Response code | 200 OK response code |
| Header fields | 'Content-Type': 'application/json' |

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| Elements of a REST API | |
| Path | …/byoperation |
| HTTP Method | POST |
| Meaning of HTTP Method in the context of the service | This API will accept json format containing a specific operation then it will return all operation |
| JSON object | {  'operation': '+'}  {  createdAt: "2022-03-30T15:54:35.659Z"  firestNumber: 6  operation: "/"  result: 2  secondNumber: 3  \_\_v: 0  \_id: "62447d3b01d551da20578471"  } |
| HTTP Response code | 200 OK response code |
| Header fields | 'Content-Type': 'application/json' |