

Preliminary API Design Documentation

baseUrl = <http://localhost:8080/api>

1. Endpoint: /user

- a. HTTP POST /user ---> to add a user after registration

Sample Request

POST <http://localhost:8080/api/user>

Sample Request Body

```
{
  "userName": "Akkahshh",
  "password": "pwd",
  "admin": 1
}
```

Sample Response

```
{
  "userId": 100,
  "userName": "Akkahshh",
  "password": "pwd",
  "_links": {
    "self": {
      "href": "http://localhost:8080/api/user/102"
    },
    "user": {
      "href": "http://localhost:8080/api/user/102"
    }
  }
}
```

- b. HTTP GET /user ---> to get all the user details

Sample Request

GET <http://localhost:8080/api/user>

Sample Response

```
{
  "_embedded": {
    "users": [
      {
        "userId": 100,
        "userName": "Akash",
        "password": "password",
        "admin": true,
        "_links": {
          "self": {
            "href": "http://localhost:8080/api/user/100"
          }
        },

```

```

        "user": {
          "href": "http://localhost:8080/api/user/100"
        }
      }
    ]
  },
  "_links": {
    "self": {
      "href": "http://localhost:8080/api/user"
    },
    "profile": {
      "href": "http://localhost:8080/api/profile/user"
    }
  },
  "page": {
    "size": 20,
    "totalElements": 1,
    "totalPages": 1,
    "number": 0
  }
}

```

c. HTTP GET /user/user_id --> to get user by user_id

Sample Request

GET http://localhost:8080/api/user/100

Sample Response

```

{
  "userId": 100,
  "userName": "Akkahshh",
  "password": "pwd",
  "admin": true,
  "_links": {
    "self": {
      "href": "http://localhost:8080/api/user/100"
    },
    "user": {
      "href": "http://localhost:8080/api/user/100"
    }
  }
}

```

d. HTTP PATCH /user/user_id

-> to update user details

Sample Request

PATCH <http://localhost:8080/api/user/100>

Sample Request Body

```
{
  "userName": "Akkahshh",
  "password": "pwd",
  "admin": true
}
```

Sample Response

```
{
  "userId": 100,
  "userName": "Akkahshh",
  "password": "pwd",
  "admin": true,
  "_links": {
    "self": {
      "href": "http://localhost:8080/api/user/100"
    },
    "user": {
      "href": "http://localhost:8080/api/user/100"
    }
  }
}
```

2. Endpoint: /likes

- a. HTTP POST /likes -> to add a like after user likes an article

Sample Request

POST <http://localhost:8080/api/likes>

Sample Request Body

```
{
  "articleId": 1000,
  "userId": 101
}
```

Sample Response

```
{
  "likeId": 2,
  "articleId": 1000,
  "userId": 101,
  "_links": {
    "self": {
      "href": "http://localhost:8080/api/likes/2"
    },
    "likes": {
      "href": "http://localhost:8080/api/likes/2"
    }
  }
}
```

- b. HTTP GET /likes -> to get user likes

Sample Request

GET <http://localhost:8080/api/likes>

Sample Response

```
{
  "_embedded": {
    "likeses": [
      {
        "likeId": 1,
        "articleId": 1000,
        "userId": 100,
        "_links": {
          "self": {
            "href": "http://localhost:8080/api/likes/1"
          },
          "likes": {
            "href": "http://localhost:8080/api/likes/1"
          }
        }
      }
    ]
  }
}
```

```

    }
  }
]
},
"_links": {
  "self": {
    "href": "http://localhost:8080/api/likes"
  },
  "profile": {
    "href": "http://localhost:8080/api/profile/likes"
  }
},
"page": {
  "size": 20,
  "totalElements": 1,
  "totalPages": 1,
  "number": 0
}
}

```

c. HTTP GET/likes/search/findById?userId=user_id -> to get likes by user_id

Sample Request

GET <http://localhost:8080/api/likes/search/findById?userId=100>

Sample Response

```

{
  "_embedded" : {
    "likeses" : [ {
      "likeId" : 1,
      "articleId" : 1000,
      "userId" : 100,
      "_links" : {
        "self" : {
          "href" : "http://localhost:8080/api/likes/1"
        },
        "likes" : {
          "href" : "http://localhost:8080/api/likes/1"
        }
      }
    }
  ], {
    "likeId" : 3,
    "articleId" : 1001,
    "userId" : 100,
    "_links" : {
      "self" : {
        "href" : "http://localhost:8080/api/likes/3"
      },

```

```
"likes" : {  
  "href" : "http://localhost:8080/api/likes/3"  
}  
}  
]]  
,  
"_links" : {  
  "self" : {  
    "href" : "http://localhost:8080/api/likes/search/findByUserId?userId=100"  
  }  
}  
}
```

d. HTTP GET /likes/search/countByArticleId?articleId=article_id

Sample Request

GET <http://localhost:8080/api/likes/search/countByArticleId?articleId=1000>

Sample Response

3

e. HTTP DELETE /likes/like_id ---> to delete like status

Sample Request

DELETE http://localhost:8080/api/likes/2

3. Endpoint: /comments

- a. HTTP POST /comments -> to add a comment after user comments on an article

Sample Request

POST <http://localhost:8080/api/comments>

Sample Request Body

```
{
  "articleId": 1000,
  "userId": 101,
  "comment": "Yes, I agree."
}
```

Sample Response

```
{
  "commentId": 2,
  "articleId": 1000,
  "userId": 101,
  "comment": "Yes, I agree.",
  "_links": {
    "self": {
      "href": "http://localhost:8080/api/comments/2"
    },
    "comments": {
      "href": "http://localhost:8080/api/comments/2"
    }
  }
}
```

- b. HTTP GET /comments -> to get user comments

Sample Request

GET <http://localhost:8080/api/comments>

Sample Response

```
{
  "_embedded": {
    "commentsses": [
      {
        "commentId": 2,
        "articleId": 1000,
        "userId": 100,
        "comment": "Laxman was a fantastic batsman."
      }
    ]
  }
}
```

```

    "_links": {
      "self": {
        "href": "http://localhost:8080/api/comments/2"
      },
      "comments": {
        "href": "http://localhost:8080/api/comments/2"
      }
    }
  }
}
],
"_links": {
  "self": {
    "href": "http://localhost:8080/api/comments"
  },
  "profile": {
    "href": "http://localhost:8080/api/profile/comments"
  }
},
"page": {
  "size": 20,
  "totalElements": 1,
  "totalPages": 1,
  "number": 0
}
}

```

- c. HTTP GET /comments/search/findByUserId?userId=user_id -> to get comments of a particular user

Sample Request

GET <http://localhost:8080/api/comments/search/findByUserId?userId=100>

Sample Response

```

{
  "_embedded" : {
    "commentsses" : [ {
      "commentId" : 3,
      "articleId" : 1000,
      "userId" : 100,
      "comment" : "Right man.",
      "_links" : {
        "self" : {
          "href" : "http://localhost:8080/api/comments/3"
        },
        "comments" : {
          "href" : "http://localhost:8080/api/comments/3"
        }
      }
    }
  ]
}

```



```

    }}
  },
  "_links" : {
    "self" : {
      "href" : "http://localhost:8080/api/comments/search/findByUserId?userId=100"
    }
  }
}

```

- d. HTTP GET /comments/search/findByArticleId?articleId=article_id → to get comments of an article

Sample Request

GET http://localhost:8080/api/comments/search/findByArticleId?articleId=1000

Sample Response

```

{
  "_embedded" : {
    "commentsses" : [ {
      "commentId" : 2,
      "articleId" : 1000,
      "userId" : 101,
      "comment" : "Yes, I agree.",
      "_links" : {
        "self" : {
          "href" : "http://localhost:8080/api/comments/2"
        }
      },
      "comments" : {
        "href" : "http://localhost:8080/api/comments/2"
      }
    }
  ],
  {
    "commentId" : 3,
    "articleId" : 1000,
    "userId" : 100,
    "comment" : "Right man.",
    "_links" : {
      "self" : {
        "href" : "http://localhost:8080/api/comments/3"
      }
    },
    "comments" : {
      "href" : "http://localhost:8080/api/comments/3"
    }
  }
}
  },
  "_links" : {
    "self" : {
      "href" : "http://localhost:8080/api/comments/search/findByArticleId?articleId=1000"
    }
  }
}

```

```
}  
}  
}
```

- e. HTTP GET /comments/search/countByArticleId?articleId=article_id → to get the number of comments on an article

Sample Request

GET http://localhost:8080/api/comments/search/countByArticleId?articleId=1000

Sample Response

2

- f. HTTP PATCH /comments/comment_id -> to update comment

Sample Request

PATCH <http://localhost:8080/api/comment/1>

Sample Request Body

```
{  
  "comment": "Laxman was a bastman."  
}
```

Sample Response

```
{  
  "commentId": 1,  
  "articleId": 1000,  
  "userId": 100,  
  "comment": "Laxman was a bastman.",  
  "_links": {  
    "self": {  
      "href": "http://localhost:8080/api/comments/1"  
    },  
    "comments": {  
      "href": "http://localhost:8080/api/comments/1"  
    }  
  }  
}
```

- g. HTTP DELETE /comments/comment_id -> to delete comment

Sample Request

DELETE http://localhost:8080/api/comments/2

4. Endpoint: /article

- a. HTTP POST /article -> to add a liked or commented article

Sample Request

POST <http://localhost:8080/api/article>

Sample Request Body

```
{
  "title": "Why Modi govt withdrew the Personal Data Protection Bill",
  "author": "Random author",
  "description": "After nearly three years of deliberations, the Narendra Modi government has withdrawn the contentious Personal Data Protection Bill 2019, which aimed to regulate how companies and the government could use the digital data of citizens.",
  "imageUrl": "https://static.theprint.in/wp-content/uploads/2019/10/computer-e1527857859434.jpg?compress=true&quality=80&w=800&dpr=1.5",
  "redirectionUrl": "https://theprint.in/india/governance/why-modi-govt-withdrew-the-personal-data-protection-bill/1068073/",
  "likes": 8,
  "comments": 18,
  "publish_date": "2022-08-04T08:18:17"
}
```

Sample Response

```
{
  "articleId": 1001,
  "title": "Why Modi govt withdrew the Personal Data Protection Bill",
  "author": "Random author",
  "description": "After nearly three years of deliberations, the Narendra Modi government has withdrawn the contentious Personal Data Protection Bill 2019, which aimed to regulate how companies and the government could use the digital data of citizens.",
  "imageUrl": "https://static.theprint.in/wp-content/uploads/2019/10/computer-e1527857859434.jpg?compress=true&quality=80&w=800&dpr=1.5",
  "redirectionUrl": "https://theprint.in/india/governance/why-modi-govt-withdrew-the-personal-data-protection-bill/1068073/",
  "likes": 8,
  "comments": 18,
  "publish_date": "2022-08-04T08:18:17.000+00:00",
  "_links": {
    "self": {
      "href": "http://localhost:8080/api/article/1001"
    }
  },
}
```

```

    "article": {
      "href": "http://localhost:8080/api/article/1001"
    }
  }
}

```

b. HTTP GET /article -> to get liked or commented on articles

Sample Request

GET <http://localhost:8080/api/article>

Sample Response

```

{
  "_embedded": {
    "articles": [
      {
        "articleId": 1000,
        "title": "VVS retires",
        "author": "Random author",
        "description": "VVS Laxman says goodbye to international cricket",
        "imageUrl": "https://static.toiimg.com/thumb/msid-76388693,imgsize-19083,width-400,resizemode-4/76388693.jpg",
        "redirectionUrl": "https://www.timesnownews.com/sports/cricket/cricket-news/article/on-this-day-in-2012-when-vvs-laxman-announced-his-retirement-and-blamed-ms-dhoni/271014",
        "likes": 5,
        "comments": 3,
        "publish_date": "2022-08-04",
        "_links": {
          "self": {
            "href": "http://localhost:8080/api/article/1000"
          },
          "article": {
            "href": "http://localhost:8080/api/article/1000"
          }
        }
      }
    ]
  }
}

```

```
    }
  }
]
},
"_links": {
  "self": {
    "href": "http://localhost:8080/api/article"
  },
  "profile": {
    "href": "http://localhost:8080/api/profile/article"
  }
},
"page": {
  "size": 20,
  "totalElements": 1,
  "totalPages": 1,
  "number": 0
}
}
```

c. HTTP DELETE /article/article_id -> to delete article

Sample Request

DELETE http://localhost:8080/api/article/1001