**BlogPost Application with SpringBoot – Assignment1**

Setup and Prerequisites:

* Java 21
* Maven
* MongoDB Atlas/MongoDB Local
* IntelliJ
* GitHub

Create Project:

Need to create skeleton of the java-maven project by using spring Initializer.

Ref: <https://start.spring.io>

Need to provide below details of project,

* Group
* Artifact
* Name
* Description
* Packaging
* Required Dependencies

Implementation:

Need to import project to IntelliJ by using existing resources option.

Layers involved in project:

* Model
* Controller
* Service
* Repository

**Model Layer:**

User:

private String Id;

private String username;

private List<Post> posts;

Posts:  
private String id;

private String title;

private String summary;

private Date date;

private String url;

private String content;

private List<Tag> tags;

private List<Comment> comments;

private User user;

Comment;

private String Id;

private String message;

private Date date;

private Post post;

private User user;

**Controller Layer:**

User Controller:

@GetMapping(“/{id})

findByUserID(String Id);

@PostMapping(“/user”)

saveUser(User user);

Post Controller:

@GetMapping(“/{id})

getPostById(String Id);

@GetMapping(“/{tags}”)

fetchPostByTags(String tag);

@GetMapping(“/{days}”)  
fetchPostbyRetentionDate (int days);

@PostMapping(“/post”)

savePost(Post request);

@PutMapping(“/Post”)

updatePost(Post request);

@DeleteMapping(“/{id}”)

deletePost(String id);

Comment Controller:

@PostMapping(“/commnet”)

saveComment(Comment comment);

@DeleteMapping(“/comment”)

deleteComment(Comment comment);

**Service Layer:**

User Service:

findByUserID(String Id);

saveUser(User user);

Post Service:  
getpostById(String Id);

fetchPostByTags(String tag);

fetchPostbyRetentionDate(int days)// like last 15 days or 30 days post

savePost(Post request);

updatePost(Post request);

deletePost(String id);

Comment Service:

saveComment(Comment comment);

deleteComment(Comment comment);

updateComment(Comment comment);

**Repository Layer:**

User Repository:

findByUserID(String Id);

saveUser(User user);

Post Repository:

@Query(….)

getPostById (String email);

@Query(….)

fetchPostByTags(String tag);

fetchPostbyRetentionDate(int days)

savePost(Post request);

updatePost(Post request);

Comment Repository:

saveComment(Comment comment);

deleteComment(Comment comment);

updateComment(Comment comment);