Prerequisites:

Install Nodejs, MySQL, NPM

Framework:

For routing, Node.js Express framework has been used. It provides a simple and flexible way to handle requests and build APIs.

Architecture:

In this project, a monolithic architecture has been followed as there are only a few requirements that can be wrapped in a single unit of code.

Database:

Sequelize ORM has been used as an interface between MySQL and Node.js. It provides a simple way to interact with databases and supports multiple database systems. Three schemas have been created for Users, Comments, and Posts.

Aws Services:

For deployment, AWS Elastic Beanstalk can be used. It is a fully managed service that makes it easy to deploy and scale web applications.

For authentication, AWS Cognito can be used. It provides user sign-up, sign-in, and access control features for web and mobile application

Steps to create:

To generate user data steps to create the endpoints, you can follow the steps below:

1. Create a directory for your project and navigate into it.
2. Install Node.js, MySQL, and NPM.
3. Install Express framework using NPM.
4. Install Sequelize ORM using NPM.
5. Create three schemas for Users, Comments, and Posts.
6. Define the required fields for each schema.
7. Define the relationships between the schemas.
8. Create API endpoints for each schema using Express.
9. Implement CRUD operations for each endpoint using Sequelize ORM.
10. Deploy your application using AWS Elastic Beanstalk.
11. If you are familiar with docker, can create image for it and deploy it.

User Case Story:

To create a post in the system, you can follow the steps below:

1. Log in to the system.
2. Navigate to the Posts section (Use Create POST API)
3. Enter a title, UserId and description for your post.
4. Click on the Create API to publish your post.

Please note that the title of a blog post must be unique and can only contain letters (A-Z or a-z). Also, each post must have a description, and an empty comment cannot be posted to a blog post.

To create a comment on a post, you can follow the steps below:

1. Navigate to the post where you want to add a comment.
2. Scroll down to the comments section.
3. Click on the Add Comment button. (Use Post Comment API)
4. Enter your comment in the text box.
5. Click on the Post Comment button to submit your comment.

Please note that each comment must be posted to a blog post only, and it must have a text content/description. An empty comment cannot be posted to a blog post. Also, comments containing URLs are not allowed.