

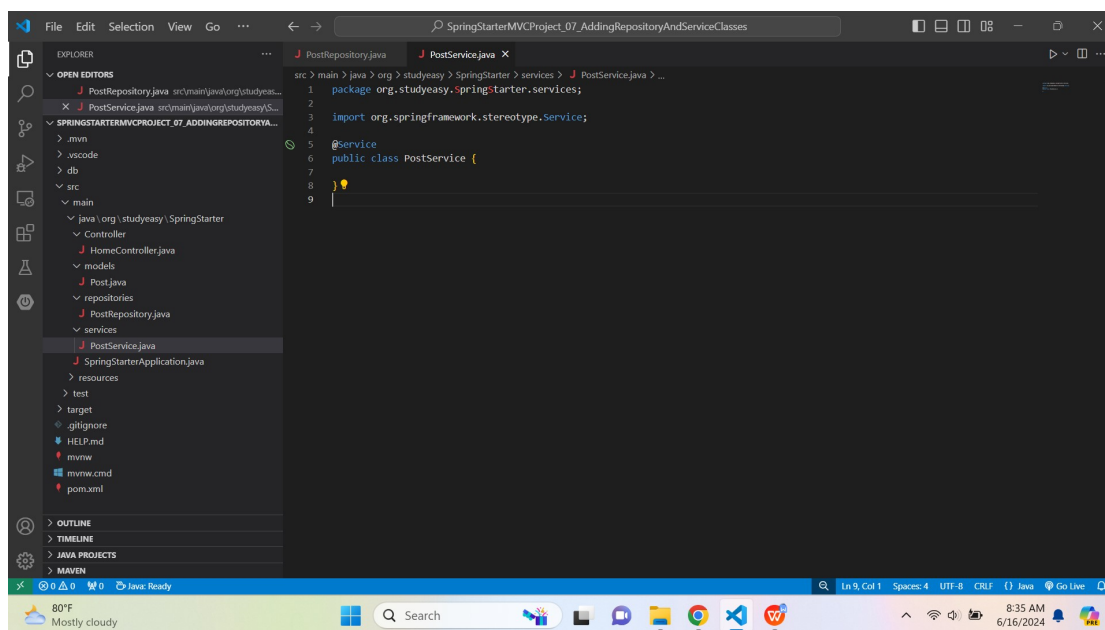
Spring Boot - Add Services And Repositories

```
@Repository
public interface PostRepository extends JpaRepository<Post, Long>{
}
```

← Type Of Model

← Datatype Of Primary Key

Services:-



```
package org.studyeasy.SpringStarter.services;

import org.springframework.stereotype.Service;

@Service
public class PostService {
}
```

- ✓ @Service - Annotation for the service layer.
- ✓ Service Layer is the backbone for interaction or adding any functionality given the controller interact with service layer.

Repositories -> PostRepository.java

```
package org.studyeasy.SpringStarter.repositories;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;
import org.studyeasy.SpringStarter.models.Post;

@Repository
public interface PostRepository extends JpaRepository<Post, Long>{
}
```

Services-> PostService.java

```
package org.studyeasy.SpringStarter.services;

import java.time.LocalDateTime;
import java.util.List;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.studyeasy.SpringStarter.models.Post;
import org.studyeasy.SpringStarter.repositories.PostRepository;

@Service
public class PostService {
    @Autowired
    private PostRepository postRepository;

    //Method which will get us a specific record based on the primary key.
    //Optional is a return Object of Post Type ; If we do not get this, we get null.
    public Optional<Post> getById(Long id){
        return postRepository.findById(id);
    }

    //Listing All the data
    public List<Post> getAll(){
        return postRepository.findAll();
    }

    //Delete
    public void delete(Post post){
        postRepository.delete(post);
    }

    //Saving the data
    //It will be null, if we are adding new record.
    public Post save(Post post){
        if(post.getId() == null){
            post.setCreatedAt(LocalDateTime.now());
        }
        return postRepository.save(post);
    }
}
```