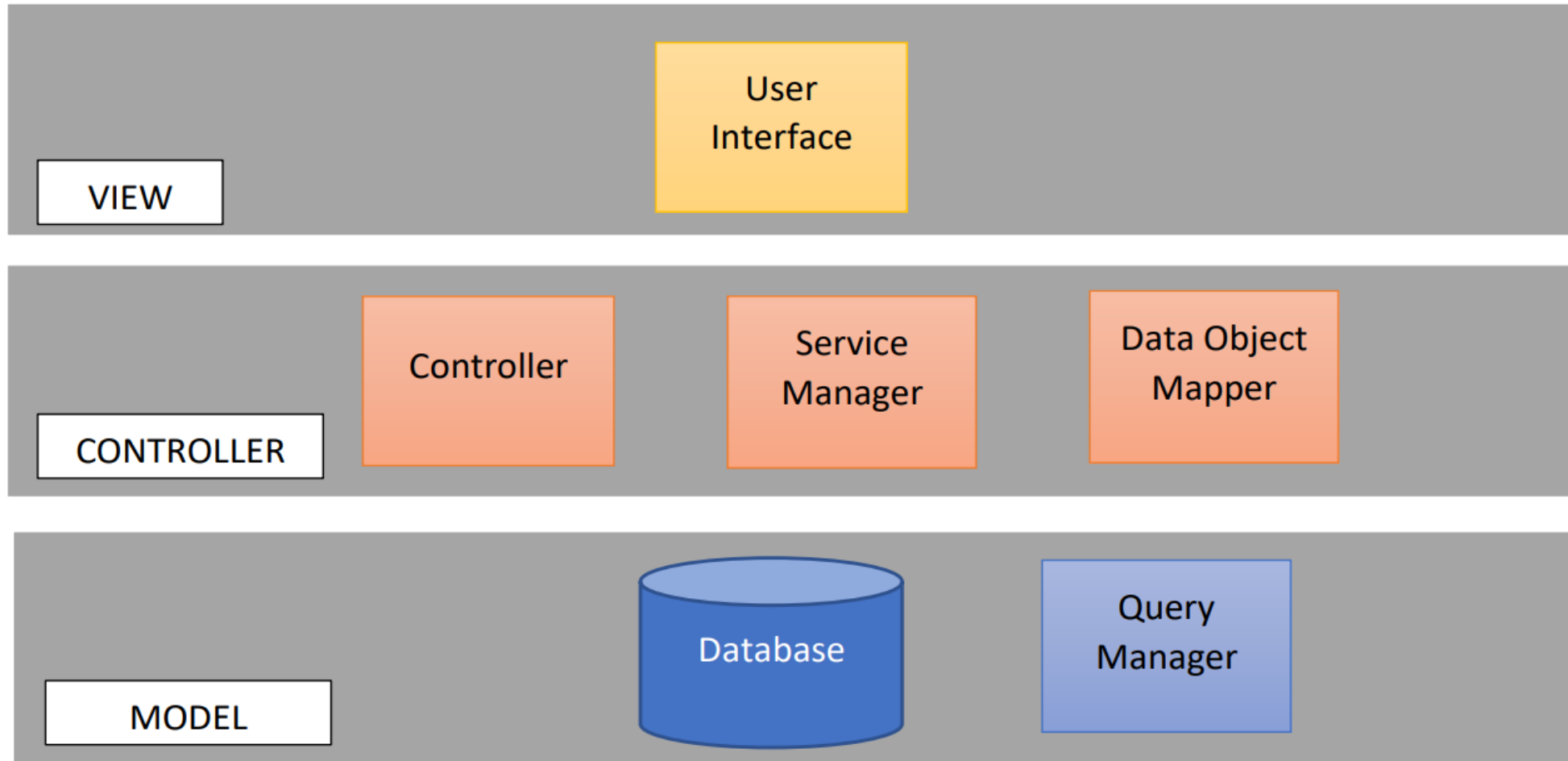
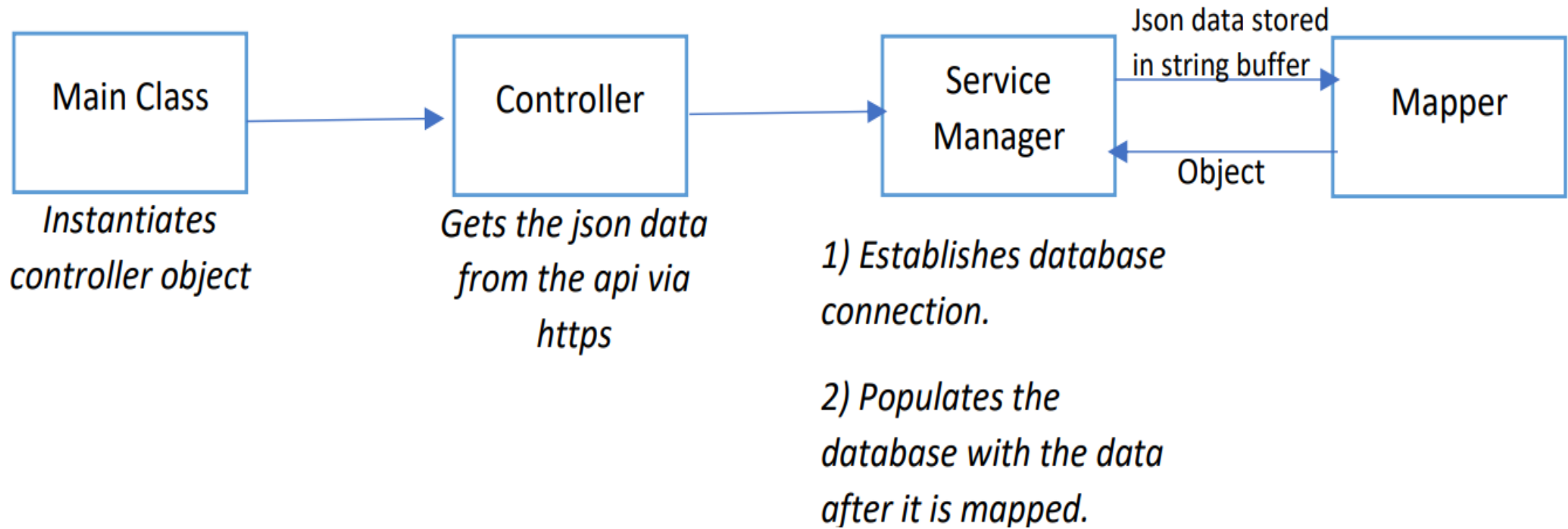


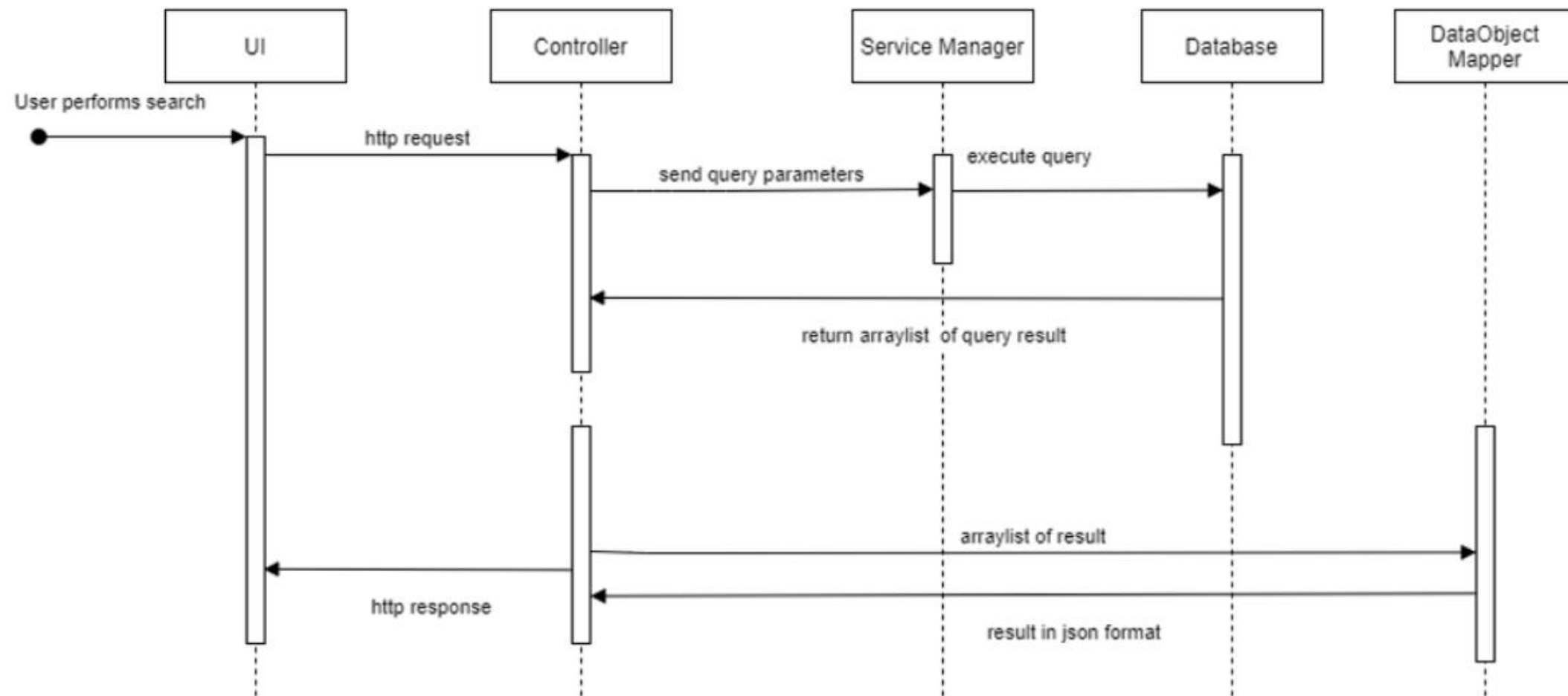
APP Project Demo

SOURAV GANESHA | SINDOORA S RAO

Architectural Overview









Development Process

Linear Process

- We decided to go with linear process as the requirements and objective of the project and deadline were clear.

Design patterns Used

Singleton pattern

We have used singleton pattern for creation of connection with our local Database.

Refactoring

Common methods are moved into interface which is then implemented by classes requiring the behaviour.

Data Source Architectural Pattern

Table Data Gateway

We have class called QueryManager in the Model Layer that handles search operations on the database.

Data Mapper

We have a DataMapper class that maps between json and java objects.

Service Manager

Acts as a mediator between Domain and data source

Object Relational Mapping

Vertical Mapping

For model class in java we have table in our database.

Foreign key mapping

We have used foreign key mapping which serves as a link between our tables during query execution

eclipse-workspace - APP/src/test/java/com/soen/app/disney/DisneyCharacterServiceImpTest.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Debug Project Explorer JUnit ×

Finished after 3.529 seconds

Runs: 7/7 Errors: 0 Failures: 0

```
1 package com.soen.app.disney;
2
3 import java.util.List;
4
5 public class DisneyCharacterServiceImpTest {
6
7     DisneyCharacterServiceImp service = new DisneyCharacterServiceImp();
8
9     @Test
10    public void testGetDisneyCharactersWithNoSearchKeywordAndFilterByAll() throws Exception {
11        List<DisneyCharacterDO> disneyCharacters = service.getDisneyCharacters("", "all");
12        Assert.assertNotNull(disneyCharacters);
13    }
14
15    @Test
16    public void testGetDisneyCharactersWithNoSearchKeywordAndFilterByMovies() throws Exception {
17        List<DisneyCharacterDO> disneyCharacters = service.getDisneyCharacters("", "movie");
18        Assert.assertNotNull(disneyCharacters);
19    }
20
21    @Test
22    public void testGetDisneyCharactersWithNoSearchKeywordAndFilterByTvShows() throws Exception {
23        List<DisneyCharacterDO> disneyCharacters = service.getDisneyCharacters("", "show");
24        Assert.assertNotNull(disneyCharacters);
25    }
26
27    @Test
28    public void testGetDisneyCharactersWithSearchKeyword() throws Exception {
29        List<DisneyCharacterDO> disneyCharacters = service.getDisneyCharacters("627", "all");
30        Assert.assertNotNull(disneyCharacters);
31    }
32
33    @Test
34    public void testGetDisneyCharactersWithSearchKeywordandFilterByMovies() throws Exception {
35        List<DisneyCharacterDO> disneyCharacters = service.getDisneyCharacters("627", "movie");
36        Assert.assertNotNull(disneyCharacters);
37    }
38
39 }
40
41
42
43
44
45
```

Console Problems Progress Coverage ×

Element	Coverage	Veried
APP	79.6 %	
src/main/java	78.0 %	
com.soen.app.disney	78.0 %	
DisneyCharacterDO.java	52.3 %	
Controller.java	51.8 %	
QueryManager.java	74.3 %	
DisneyCharacterServiceImp.java	95.5 %	
Main.java	0.0 %	
DisneyCharactersCollectionDO.java	100.0 %	
src/test/java	100.0 %	
com.soen.app.disney	100.0 %	
ControllerTest.java	100.0 %	
DisneyCharacterServiceImpTest.java	100.0 %	

Failure Trace

Fully charged (100%)

Testing

JUNIT