

```

MINGW64:/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone
$ git push -u origin feature-entity
Enumerating objects: 36, done.
Counting objects: 100% (36/36), done.
Delta compression using up to 8 threads
Compressing objects: 100% (25/25), done.
Writing objects: 100% (25/25), 53 KiB | 369.00 KiB/s, done.
Total 25 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-entity' on GitHub by visiting:
remote:     https://github.com/annisatessffaaye/BAEProjectOne/pull/new/feature-entity
remote:
To https://github.com/annisatessffaaye/BAEProjectOne.git
 * [new branch]    feature-entity -> feature-entity
Branch 'feature-entity' set up to track remote branch 'feature-entity' from 'origin'.

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.
nothing to commit, working tree clean

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified: src/main/java/com/qa/baeprojectone/controller/UserController.java
    modified: src/main/java/com/qa/baeprojectone/Domain/User.java
    modified: src/main/java/com/qa/baeprojectone/Repo/UserRepo.java
    modified: src/main/java/com/qa/baeprojectone/Service/UserService.java
    modified: src/main/resources/application.properties
    modified: src/test/java/com/qa/baeprojectone/Controller/UserControllerIntegrationTest.java
    modified: src/test/java/com/qa/baeprojectone/Controller/UserControllerUnitTest.java
    modified: src/test/java/com/qa/baeprojectone/Service/UserServiceTest.java

no changes added to commit (use "git add" and/or "git commit -a")

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .
warning: LF will be replaced by CRLF in src/main/resources/application.properties.

 10°C Cloudy 12:11 27/04/2022

src/main/java/com/qa/baeprojectone/controller/UserController.java
src/main/java/com/qa/baeprojectone/Domain/User.java
src/main/java/com/qa/baeprojectone/Repo/UserRepo.java
src/main/java/com/qa/baeprojectone/Service/UserService.java
src/main/resources/application.properties
src/test/java/com/qa/baeprojectone/Controller/UserControllerIntegrationTest.java
src/test/java/com/qa/baeprojectone/Controller/UserControllerUnitTest.java
src/test/java/com/qa/baeprojectone/Service/UserServiceTest.java

nothing to commit, working tree clean

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified: src/main/java/com/qa/baeprojectone/Controller/UserController.java
    modified: src/main/java/com/qa/baeprojectone/Domain/User.java
    modified: src/main/java/com/qa/baeprojectone/Repo/UserRepo.java
    modified: src/main/java/com/qa/baeprojectone/Service/UserService.java
    modified: src/main/resources/application.properties
    modified: src/test/java/com/qa/baeprojectone/Controller/UserControllerIntegrationTest.java
    modified: src/test/java/com/qa/baeprojectone/Controller/UserControllerUnitTest.java
    modified: src/test/java/com/qa/baeprojectone/Service/UserServiceTest.java

no changes added to commit (use "git add" and/or "git commit -a")

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .
warning: LF will be replaced by CRLF in src/main/resources/application.properties.
The file will have its original line endings in your working directory

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "AT: changed UserRep.java, UserController.java, UserService.java and added application.properties"
[feature-entity d3adef] AT: changed UserRep.java, UserController.java, UserService.java and added application.properties
 8 files changed, 91 insertions(+), 1 deletion(-)

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 50, done.
Counting objects: 100% (46/46), done.
Delta compression using up to 8 threads
Compressing objects: 100% (19/19), done.
Writing objects: 100% (27/27), 2.68 KiB | 343.00 KiB/s, done.
Total 27 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/annisatessffaaye/BAEProjectOne.git
 c439dbe..d3adef feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$
```



Apps

ATLASSIAN MARKETPLACE

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App requests

Promotions

OAuth credentials

Jira / Marketplace apps / GitHub for Jira

GitHub for Jira

by Atlassian

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Overview **Support**

Jira Software + GitHub

By connecting your code in GitHub to your projects in Jira, your developers can focus less on updates and more on building great products. And with source code data flowing through Jira, the broader team can visualize deployment data in one place, extract key insights, and build powerful automations in Jira.

Automatic context in Jira

- Get updates in Jira on pull requests, deployments, branches, builds, and commits.

Keep developers in GitHub

- Show relevant Jira information in GitHub issues and pull requests.
- Use [Smart Commits](#) to perform certain tasks within Jira such as transitioning issues, adding comments, and updating time tracking information

Give feedback

Your thoughts are valuable in helping improve our products.

If you're looking to get help or want to report a bug, [visit our support site](#).

Feedback

Get app FREE

Privacy and security

Privacy policy

Atlassian's privacy policy is applicable to the use of this app.
[Atlassian privacy policy](#)

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19:38 27/04/2022

Apps

ATLASSIAN MARKETPLACE

Find new apps

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Jira / Marketplace apps / GitHub for Jira

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Overview **Support**

Jira Software + GitHub

By connecting your code in GitHub to your projects in Jira, your developers can focus less on updates and more on building great products. And with source code data flowing through Jira, the broader team can visualize deployment data in one place, extract key insights, and build powerful automations in Jira.

Automatic context in Jira

- Get updates in Jira on pull requests, deployments, branches, builds, and commits.
- Easily view and access repositories from the project.
- Give the whole team visibility into what shipped, along with DevOps performance insights on deployment frequency, cycle time, and more.

Keep developers in GitHub

- Show relevant Jira information in GitHub issues and pull requests.
- Use [Smart Commits](#) to perform certain tasks within Jira such as transitioning issues, adding comments, and updating time tracking information

Give feedback

Your thoughts are valuable in helping improve our products.

If you're looking to get help or want to report a bug, [visit our support site](#).

Feedback

Privacy and security

Privacy policy

Atlassian's privacy policy is applicable to the use of this app.
[Atlassian privacy policy](#)

Security

- This app is part of the Marketplace Bug Bounty Program. [Learn more](#)
- This partner has completed the Security Self-Assessment Program. [Learn more](#)

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19:38 27/04/2022

The screenshot shows a web browser window with two tabs open. The top tab is for GitHub OAuth, and the bottom tab is for the Jira app's permission setup.

Top Tab: GitHub OAuth

Jira by Atlassian would like permission to:

- Verify your GitHub identity (annissatessffaaye)
- Know which resources you can access
- Act on your behalf

Jira has not been installed on any accounts you have access to.
[Learn more about Jira](#)

Buttons: Cancel, Authorize Jira

Message: Authorizing will redirect to https://github.com/apps/jira/installations/new/permissions?target_id=89410575

Bottom Tab: Jira App Permissions

Install Jira

Install on your personal account Annissa Tessffaaye

All repositories
This applies to all current and future repositories.

Only select repositories
Select at least one repository.

with these permissions:

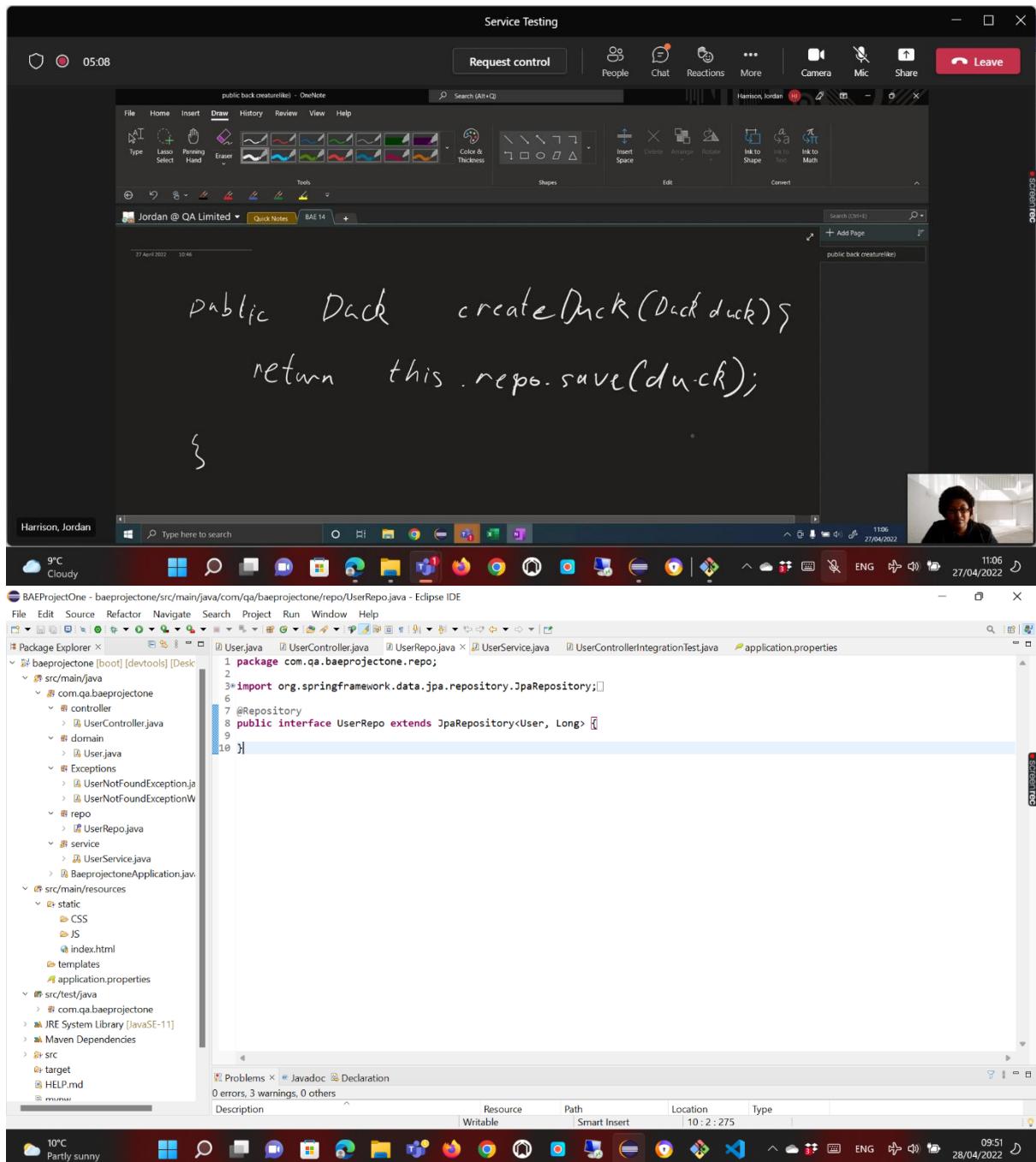
- ✓ Read access to code, deployments, and metadata
- ✓ Read and write access to issues and pull requests

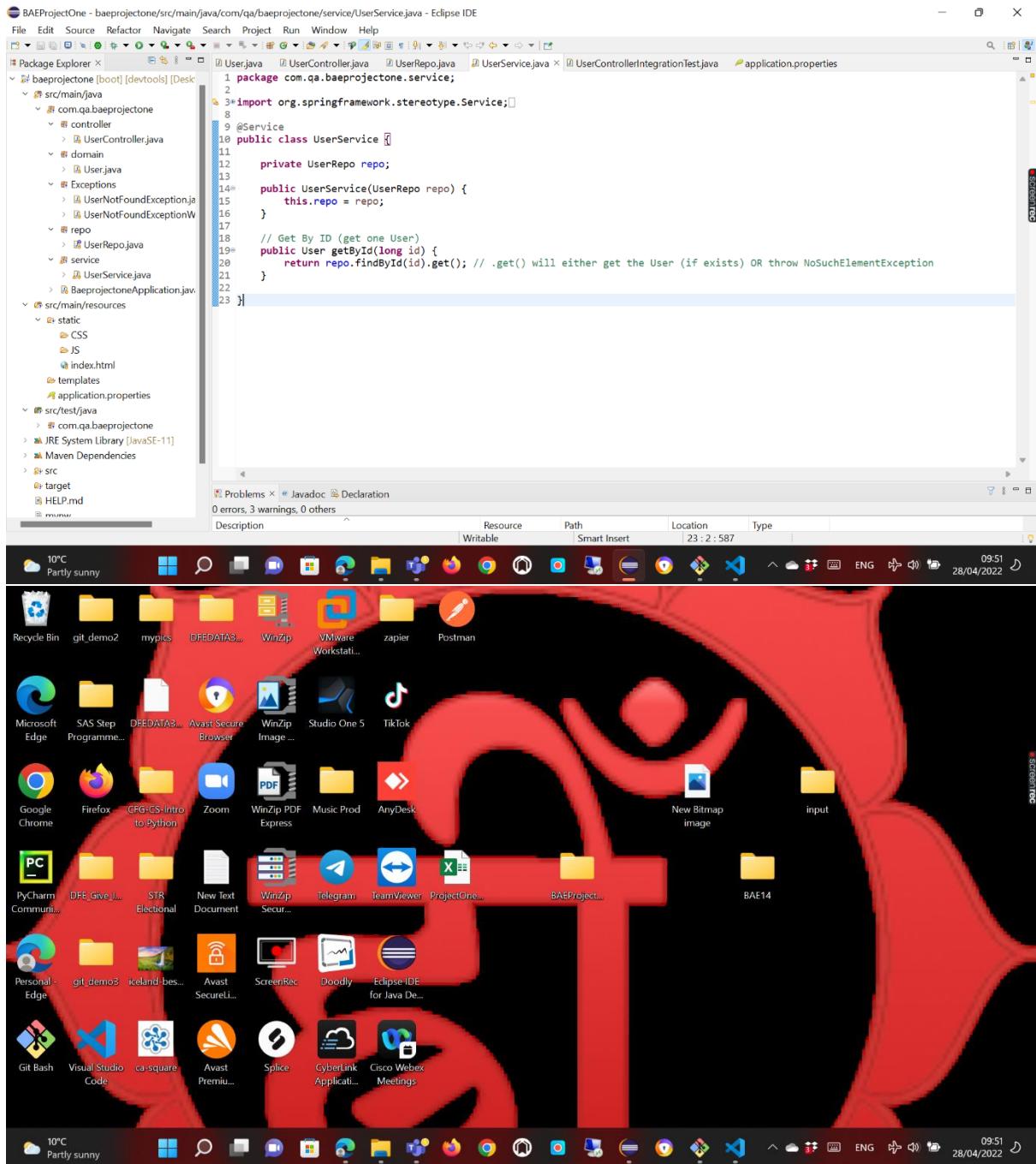
Buttons: Install, Cancel

Message: Next: you'll be directed to the GitHub App's site to complete setup.



A screenshot of the Jira Software interface. The top navigation bar includes links for "Your work", "Projects", "Filters", "Dashboards", "People", "Apps", and a "Create" button. On the left, there's a sidebar with sections for "ATLASSIAN MARKETPLACE" (Find new apps, Manage apps, App requests, Promotions), "OAuth credentials", and "GITHUB" (Configure integration). The main content area is titled "GitHub configuration". It features a "Connect GitHub organization" button. Below it, a message states: "After you connect your GitHub account or organization to Jira and include issue keys in branch names, commit messages, and pull request titles, you will be able to:" followed by a bulleted list: "• Create pull requests from your Jira project.", "• View development information within your linked Jira issue.", and "• View deployment pipelines over a timeline in your insights.". A note below says: "Even if the backfill status is still in progress, you can start linking issue keys in your development work immediately." At the bottom of the configuration section, there's a table with columns for "Connected organization", "Repository access", "Backfill status", and "Settings". It shows the organization "annissatessffaaye", "All repos 0 / 61", "IN PROGRESS", and three dots for settings. The bottom of the screen shows the Windows taskbar with various pinned icons.





```

MINGW64:/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone
annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 50, done.
Counting objects: 100% (46/46), done.
Delta compression using up to 8 threads
Compressing objects: 100% (27/27) | 2.68 KiB/s, done.
Writing objects: 100% (27/27) | 343.00 KiB/s, done.
Total 27 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/annissatessffaaaye/BAEProjectOne.git
  c439dbe..d3adefd feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
           modified: src/main/java/com/qa/baeprojectone/Controller/UserController.java
           modified: src/main/java/com/qa/baeprojectone/Service/UserService.java

no changes added to commit (use "git add" and/or "git commit -a")

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "AT: Added @GetMapping and @PostMapping to UserController.java also added getAll Users and Create a new user to UserService.java"
[feature-entity b9c3d02] AT: Added @GetMapping and @PostMapping to UserController.java also added getAll Users and Create a new user to UserService.java
 2 files changed, 25 insertions(+), 4 deletions(-)

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 23, done.
Counting objects: 100% (23/23), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (12/12), 1.18 KiB | 602.00 KiB/s, done.
Total 12 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 4 local objects.
To https://github.com/annissatessffaaaye/BAEProjectOne.git
  d3adefd..b9c3d02 feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$
```

10°C Partly sunny

```

User.java UserController.java UserRepository.java UserService.java UserControllerIntegrationTest.java application.properties

14 @RestController
15 public class UserController {
16
17     private UserService service;
18
19     public UserController(UserService service) {
20         this.service = service;
21     }
22
23     // Get by ID (get one Users)
24     @GetMapping("/getById/{id}") // localhost:11000/getById/{id}
25     public User getById(@PathVariable long id) {
26         return service.getById(id);
27     }
28
29     // Get All (get all Users)
30     @GetMapping("/getAll") // localhost:11000/getAll
31     public List<User> getAll() {
32         return service.getAll();
33     }
34
35     // Post
36     @PostMapping("/create") // localhost:11000/create
37     public User create(@RequestBody User user) {
38         return service.create(user);
39     }
40
41     // Put/Patch
42
43     // Delete
44 }
```

10:00 28/04/2022

BAEProjectOne - baeprojectone/src/main/java/com/qa/baeprojectone/service/UserService.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer X
src/main/java
  com.qa.baeprojectone
    controller
      UserController.java
    domain
      User.java
    Exceptions
      UserNotFoundException.java
      UserNotFoundExceptionW.java
    repo
      UserRepository.java
    service
      UserService.java
      BaeprojectoneApplication.java
src/main/resources
  static
    CSS
    JS
    index.html
  templates
    application.properties
src/test/java
  com.qa.baeprojectone
JRE System Library [JavaSE-11]
Maven Dependencies
src
target
HELP.md
maven

```

```

3=import java.util.List;
4
5 import org.springframework.stereotype.Service;
6
7 import com.qa.baeprojectone.domain.User;
8 import com.qa.baeprojectone.repo.UserRepo;
9
10 @Service
11 public class UserService {
12
13     private UserRepository repo;
14
15     public UserService(UserRepository repo) {
16         this.repo = repo;
17     }
18
19     // Get By ID (get one User)
20     public User getById(long id) {
21         return repo.findById(id).get(); // .get() will either get the User (if exists) OR throw NoSuchElementException
22     }
23
24     // Get ALL users
25     public List<User> getAll() {
26         return repo.findAll();
27     }
28
29     // Create a new user
30     public User create(User user) {
31         return repo.saveAndFlush(user);
32     }
33
34 }
```

Problems X Javadoc Declaration
0 errors, 2 warnings, 0 others

| Description | Resource | Path | Location | Type |
|-------------|----------|------|----------|------|
| | Writable | | | |

10°C Partly sunny 10:01 28/04/2022

```

MINGW64:/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone
new file: src/main/resources/testdata.sql
new file: src/main/resources/testschema.sql

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .
annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Everything up-to-date

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
  new file: src/main/resources/userschema.sql
  new file: src/main/resources/testschema.sql
  modified: pom.xml
  modified: src/main/java/com/qa/baeprojectone/Controller/UserController.java
  modified: src/main/java/com/qa/baeprojectone/Service/UserService.java
  new file: src/main/resources/application-prod.properties
  new file: src/main/resources/application-test.properties
  modified: src/main/resources/application.properties
  new file: src/main/resources/testdata.sql
  new file: src/main/resources/testschema.sql

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "AT: Created application-test.properties, application-prod.properties. Updated UserController.java by adding @PutMapping, updated UserService.java by adding update user. Added MySQL dependency in pom.xml. Updated application.properties, created a database in MySQL Workbench, created user table and inserted two users into table using sql file"
[feature-entity 006bb4f] AT: Created application-test.properties, application-prod.properties. Updated UserController.java by adding @PutMapping, updated UserService.java by adding update user. Added MySQL dependency in pom.xml. Updated application.properties, created a database in MySQL Workbench, created user table and inserted two users into table using sql file
10 files changed, 10 insertions(+), 34 deletions(-)
create mode 100644 baeprojectone/src/main/resources/userschema.sql
create mode 100644 baeprojectone/src/main/resources/testschema.sql
create mode 100644 baeprojectone/pom.xml
create mode 100644 baeprojectone/src/main/resources/application-prod.properties
copy src/main/resources/{application.properties => application-test.properties} (56%)
rewrite src/main/resources/application.properties (86%)
create mode 100644 src/main/resources/testdata.sql
create mode 100644 src/main/resources/testschema.sql

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$
```

13°C Mostly sunny 15:16 28/04/2022

BAEProjectOne - baeprojectone/src/main/java/com/qa/baeprojectone/controller/UserController.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer UserControl... UserRepo.java UserService... application... application... testschema.sql testdata.sql ...
src/main/java
  com.qa.baeprojectone
    controller
      UserController.java
    domain
      User.java
    Exceptions
      UserNotFoundException.java
      UserNotFoundExceptionWithId.java
    repo
      UserRepository.java
    service
      UserService.java
      BaeprojectoneApplication.java
  static
    templates
      application.properties
      application-prod.properties
      application-test.properties
      testdata.sql
      testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java
      UserControllerTest.java

```

```

14
15 @RestController
16 public class UserController {
17
18     private UserService service;
19
20     public UserController(UserService service) {
21         this.service = service;
22     }
23
24     // Get by ID (get one User)
25     @GetMapping("/getById/{id}") // localhost:12000/getById/id
26     public User getById(@PathVariable long id) {
27         return service.getById(id);
28     }
29
30     @GetMapping("/getAll") // localhost:12000/getAll
31     public List<User> getAll() {
32         return service.getAll();
33     }
34
35     // Post
36     @PostMapping("/create") // localhost:12000/create
37     public User create(@RequestBody User user) {
38         return service.create(user);
39     }
40
41     // Put
42     @PutMapping("/update/{id}") // localhost:12000/update/id
43     public User update(@PathVariable long id, @RequestBody User user) {
44         return service.update(id, user);
45     }
46
47     // Delete
48
49 }

```

Writable Smart Insert 42 : 48 : 1260 15:16 28/04/2022

BAEProjectOne - baeprojectone/src/main/java/com/qa/baeprojectone/service/UserService.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer UserControl... UserRepo.java UserService... application... application... testschema.sql testdata.sql ...
src/main/java
  com.qa.baeprojectone
    controller
      UserController.java
    domain
      User.java
    Exceptions
      UserNotFoundException.java
      UserNotFoundExceptionWithId.java
    repo
      UserRepository.java
    service
      UserService.java
      BaeprojectoneApplication.java
  static
    templates
      application.properties
      application-prod.properties
      application-test.properties
      testdata.sql
      testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java
      UserControllerTest.java

```

```

8 import com.qa.baeprojectone.domain.User;
9 import com.qa.baeprojectone.repo.UserRepo;
10
11 @Service
12 public class UserService {
13
14     private UserRepo repo;
15
16     public UserService(UserRepo repo) {
17         this.repo = repo;
18     }
19
20     // Get By ID (get one User)
21     public User getById(long id) {
22         return repo.findById(id).get(); // .get() will either get the User (if exists) OR throw NoSuchElementException
23     }
24
25     // Get ALL users
26     public List<User> getAll() {
27         return repo.findAll();
28     }
29
30     // Create a new user
31     public User create(User user) {
32         return repo.saveAndFlush(user);
33     }
34
35     // Update a user
36     public User update(long id, User user) {
37         User existing = repo.findById(id).get(); // Get the EXISTING user
38         existing.setFirstName(user.getFirstName()); // Change EXISTING user's first name to new user's first name.
39         existing.setLastName(user.getLastName()); // Change EXISTING user's last name to new user's last name.
40         existing.setUsername(user.getUsername()); // Change EXISTING user's username to new user's username.
41
42         return repo.saveAndFlush(existing);
43     }

```

Writable Smart Insert 1 : 38 : 37 15:16 28/04/2022

BAEProjectOne - baeprojectone/src/main/resources/application.properties - Eclipse IDE

```

File Edit Navigate Search Project Run Window Help
Package Explorer X
baeprojectone [boot] [devtools] [Desktop main]
src/main/java
  com.qa.baeprojectone
    controller
      UserController.java
    domain
      User.java
    Exceptions
      UserNotFoundException.java
      UserNotFoundExceptionWithID.java
    repo
      UserRepository.java
    service
      UserService.java
      BaeprojectoneApplication.java
src/main/resources
  static
    templates
    application.properties
    application-prod.properties
    application-test.properties
    testdata.sql
    testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java

```

1 # If you want to change the port (because it's in use)
2 server.port=12000
3
4 spring.profiles.active=prod

13°C Mostly sunny 15:17 28/04/2022

BAEProjectOne - baeprojectone/src/main/resources/application-prod.properties - Eclipse IDE

```

File Edit Navigate Search Project Run Window Help
Package Explorer X
baeprojectone [boot] [devtools] [Desktop main]
src/main/java
  com.qa.baeprojectone
    controller
      UserController.java
    domain
      User.java
    Exceptions
      UserNotFoundException.java
      UserNotFoundExceptionWithID.java
    repo
      UserRepository.java
    service
      UserService.java
      BaeprojectoneApplication.java
src/main/resources
  static
    templates
    application.properties
    application-prod.properties
    application-test.properties
    testdata.sql
    testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java

```

```

1# JDBC URL
2spring.datasource.url=jdbc:mysql://localhost:3306/baeprojectonedb
3#spring.datasource.url=jdbc:mysql://localhost:3306/baeprojectone?createDatabaseIfNotExist=true
4
5# Username/Password
6spring.datasource.username=root
7spring.datasource.password=root
8
9# DDL-AUTO
10spring.jpa.hibernate.ddl-auto=update
11
12# Specify Driver
13spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
14
15# Specify Dialect
16spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect
17
18# Initialisation Mode
19spring.sql.init.mode=always
20
21# Show hibernate SQL
22spring.jpa.show-sql=true

```

13°C Mostly sunny 15:17 28/04/2022

BAEProjectOne - baeprojectone/src/main/resources/application-test.properties - Eclipse IDE

```

File Edit Navigate Search Project Run Window Help
Package Explorer X
src/main/java
# com.qa.baeprojectone
controller
UserController.java
domain
User.java
Exceptions
UserNotFoundException.java
UserNotFoundExceptionWithID.java
repo
UserRepo.java
service
UserService.java
BaeprojectoneApplication.java
static
templates
application.properties
application-prod.properties
application-test.properties
testdata.sql
testschema.sql
src/test/java
com.qa.baeprojectone
controller
UserControllerIntegrationTest.java
UserControllerUnitTest.java
service
UserTest.java

```

1# Enable h2 console
2spring.h2.console.enabled=true
3
4# Set JDBC URL
5spring.datasource.url=jdbc:h2:mem:testdb
6
7# Default login information
8spring.datasource.username=root
9spring.datasource.password=root
10
11
12#Set URL for accessing the H2 console
13#spring.h2.console.path=/h2-console
14
15
16# Show hibernate -so that SQL is printed to console
17spring.jpa.show-sql=true
18
19# http://localhost:8080/h2-console

Writable Insert 10:32:210

13°C Mostly sunny 15:17 28/04/2022

BAEProjectOne - baeprojectone/src/main/resources/testschema.sql - Eclipse IDE

```

File Edit Source Navigate Search Project Run Window Help
Package Explorer X
src/main/java
# com.qa.baeprojectone
controller
UserController.java
domain
User.java
Exceptions
UserNotFoundException.java
UserNotFoundExceptionWithID.java
repo
UserRepo.java
service
UserService.java
BaeprojectoneApplication.java
static
templates
application.properties
application-prod.properties
application-test.properties
testdata.sql
testschema.sql
src/test/java
com.qa.baeprojectone
controller
UserControllerIntegrationTest.java
UserControllerUnitTest.java
service
UserTest.java

```

1DROP TABLE IF EXISTS user CASCADE;
2CREATE TABLE user (
3 id INT AUTO_INCREMENT,
4 firstname VARCHAR(255) NOT NULL,
5 last_name VARCHAR(255) NOT NULL,
6 username VARCHAR(255) UNIQUE NOT NULL,
7 --phone_number VARCHAR(255) UNIQUE NOT NULL,
8 --address VARCHAR(255) NOT NULL,
9 PRIMARY KEY (ID)
10);

Writable Insert 8:7:243

13°C Mostly sunny 15:17 28/04/2022

BAEProjectOne - baeprojectone/src/main/resources/testdata.sql - Eclipse IDE

File Edit Source Navigate Search Project Run Window Help

Package Explorer X

src/main/java

- # com.qa.baeprojectone
 - controller
 - UserController.java
 - domain
 - User.java
 - Exceptions
 - UserNotFoundException.java
 - UserNotFoundExceptionWithID.java
 - repo
 - UserRepo.java
 - service
 - UserService.java
 - BaeprojectoneApplication.java
- static
- templates
- application.properties
- application-prod.properties
- application-test.properties
- testdata.sql
- testschema.sql

src/test/java

- com.qa.baeprojectone
 - controller
 - UserControllerIntegrationTest.java
 - UserControllerUnitTest.java
 - service
 - UserServiceTest.java

testdata.sql

testschema.sql

Writable Insert 3:1:141

13°C Mostly sunny 15:17 28/04/2022

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

createprojectonebd baeprojectonebd userschema

SCHEMAS

Filter objects

baeprojectonebd

Tables

user

Columns

- id
- firstname
- last_name
- username

Indexes

Foreign Keys

Triggers

VIEWS Administration Schemas

Information

Table: user

Columns:

| id | int AI PK |
|-----------|--------------|
| firstname | varchar(255) |
| last_name | varchar(255) |
| username | varchar(255) |

Object Info Session

Query Completed

```

1 ● CREATE DATABASE baeprojectonebd;
2 ● DROP TABLE IF EXISTS user CASCADE;
3 ● ○ CREATE TABLE user (
4     id INT AUTO_INCREMENT,
5     firstname VARCHAR(255) NOT NULL,
6     last_name VARCHAR(255) NOT NULL,
7     username VARCHAR(255) UNIQUE NOT NULL,
8     PRIMARY KEY (ID)
9 );
10 -----
11
12
13 ● use baeprojectonebd;
14
15 ● INSERT INTO user (firstname, last_name, username) VALUES ("Jim", "Jones", "jjones1");
  
```

Action Output

| # | Time | Action | Message | Duration / Fetch |
|----|----------|--|-------------------|-----------------------|
| 64 | 13:13:57 | INSERT INTO user (firstname, last_name, username) VALUES ("Jim", "Jones", "jjones1") | 1 row(s) affected | 0.016 sec |
| 65 | 13:13:57 | INSERT INTO user (firstname, last_name, username) VALUES ("Jim", "Smith", "jsmith1") | 1 row(s) affected | 0.000 sec |
| 66 | 14:32:37 | SELECT * FROM baeprojectonebd.user LIMIT 0, 1000 | 2 row(s) returned | 0.031 sec / 0.000 sec |

13°C Mostly sunny 15:17 28/04/2022

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

createprojectonedb x baeprojectonedb userschema

```

6     last_name VARCHAR(255) NOT NULL,
7     username VARCHAR(255) UNIQUE NOT NULL,
8     PRIMARY KEY (ID)
9   );
10
11
12
13 • use baeprojectonedb;
14
15 • INSERT INTO user (firstname, last_name, username) VALUES ("Jim", "Jones", "jjones1");
16 • INSERT INTO user (firstname, last_name, username) VALUES ("Jim", "Smith", "tsmith1");
17
18
19
20 • SELECT * FROM baeprojectonedb.user;
```

Table: user

Columns:

| | id | int AI PK |
|--|------------------|--------------|
| | firstname | varchar(255) |
| | last_name | varchar(255) |
| | username | varchar(255) |

Object Info Session

Query Completed

13°C Mostly sunny

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

createprojectonedb x baeprojectonedb userschema

```

15 • INSERT INTO user (firstname, last_name, username) VALUES ("Jim", "Jones", "jjones1");
16 • INSERT INTO user (firstname, last_name, username) VALUES ("Jim", "Smith", "tsmith1");
17
18
19
20 • SELECT * FROM baeprojectonedb.user;
```

Table: user

Columns:

| | id | int AI PK |
|--|------------------|--------------|
| | firstname | varchar(255) |
| | last_name | varchar(255) |
| | username | varchar(255) |

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor

| | id | firstname | last_name | username |
|---|-----------|------------------|------------------|-----------------|
| ▶ | 1 | Jim | Jones | jjones1 |
| ▶ | 2 | Jim | Smith | tsmith1 |
| ● | NULL | NULL | NULL | NULL |

user 2 x

Output

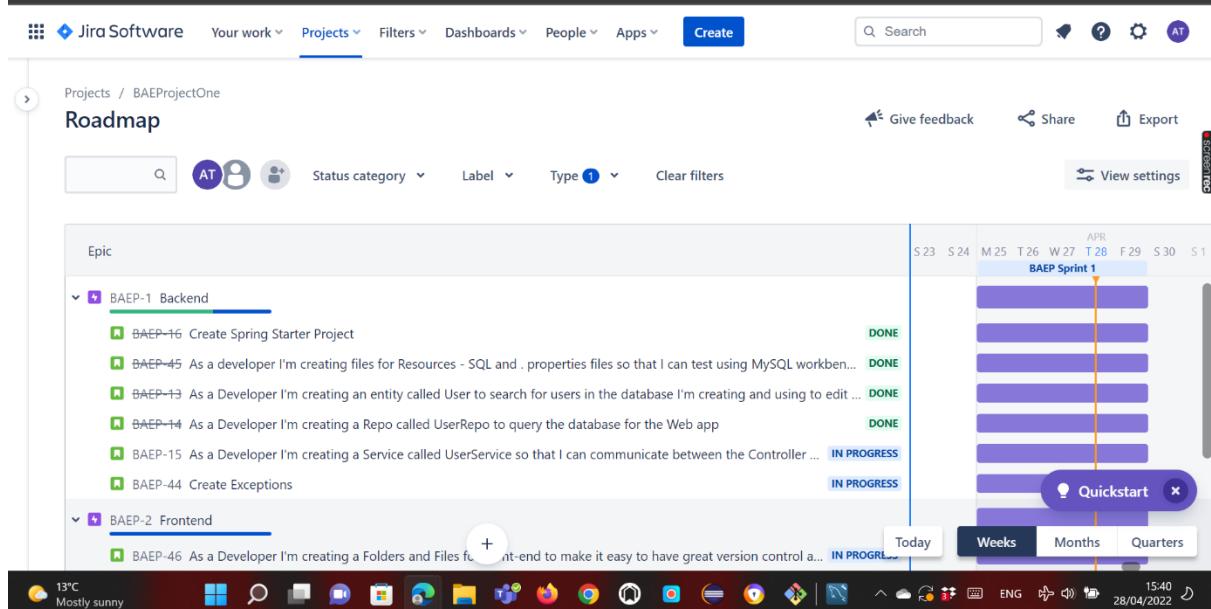
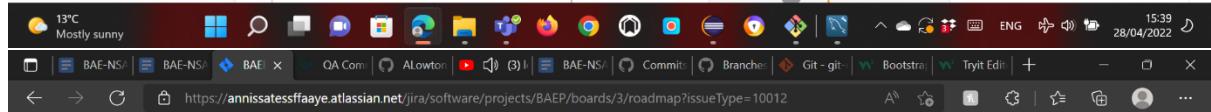
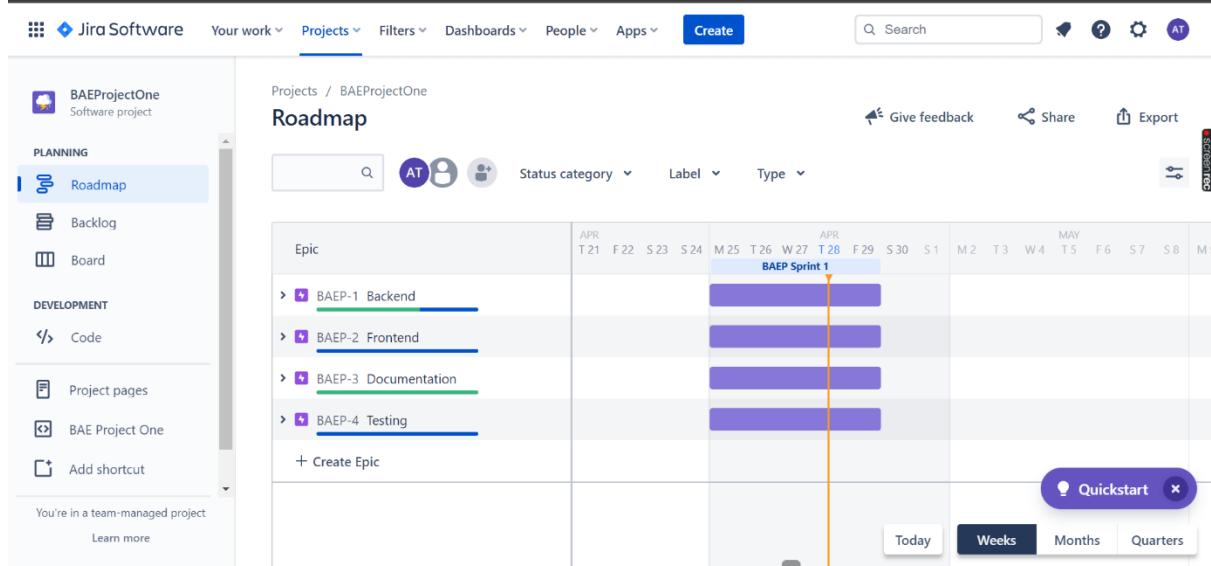
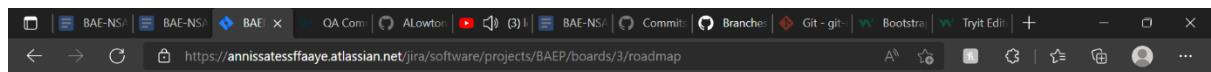
Action Output

| # | Time | Action | Message | Duration / Fetch |
|----|----------|---|-------------------|-----------------------|
| 64 | 13:13:57 | INSERT INTO user(firstname, last_name, username) VALUES ("Jim", "Jon...", | 1 row(s) affected | 0.016 sec |
| 65 | 13:13:57 | INSERT INTO user(firstname, last_name, username) VALUES ("Jim", "Smt...", | 1 row(s) affected | 0.000 sec |
| 66 | 14:32:37 | SELECT * FROM baeprojectonedb.user LIMIT 0, 1000 | 2 row(s) returned | 0.031 sec / 0.000 sec |
| 67 | 15:17:44 | SELECT * FROM baeprojectonedb.user LIMIT 0, 1000 | 2 row(s) returned | 0.032 sec / 0.000 sec |

Object Info Session

Query Completed

13°C Mostly sunny



The image shows a dual-monitor setup. The left monitor displays the Jira Software interface, specifically a Roadmap view for the project 'BAEProjectOne'. The roadmap shows several epics and their tasks across different sprints. The right monitor displays the Visual Studio Code (VS Code) interface, showing the 'Extensions' marketplace with the search term 'Bootstrap 5 Form Snippets'. A specific extension, 'Bootstrap 5 Form Snippets' by andrewpolemeni, is highlighted. Both monitors show a taskbar at the bottom with various application icons.

Jira Software Roadmap View:

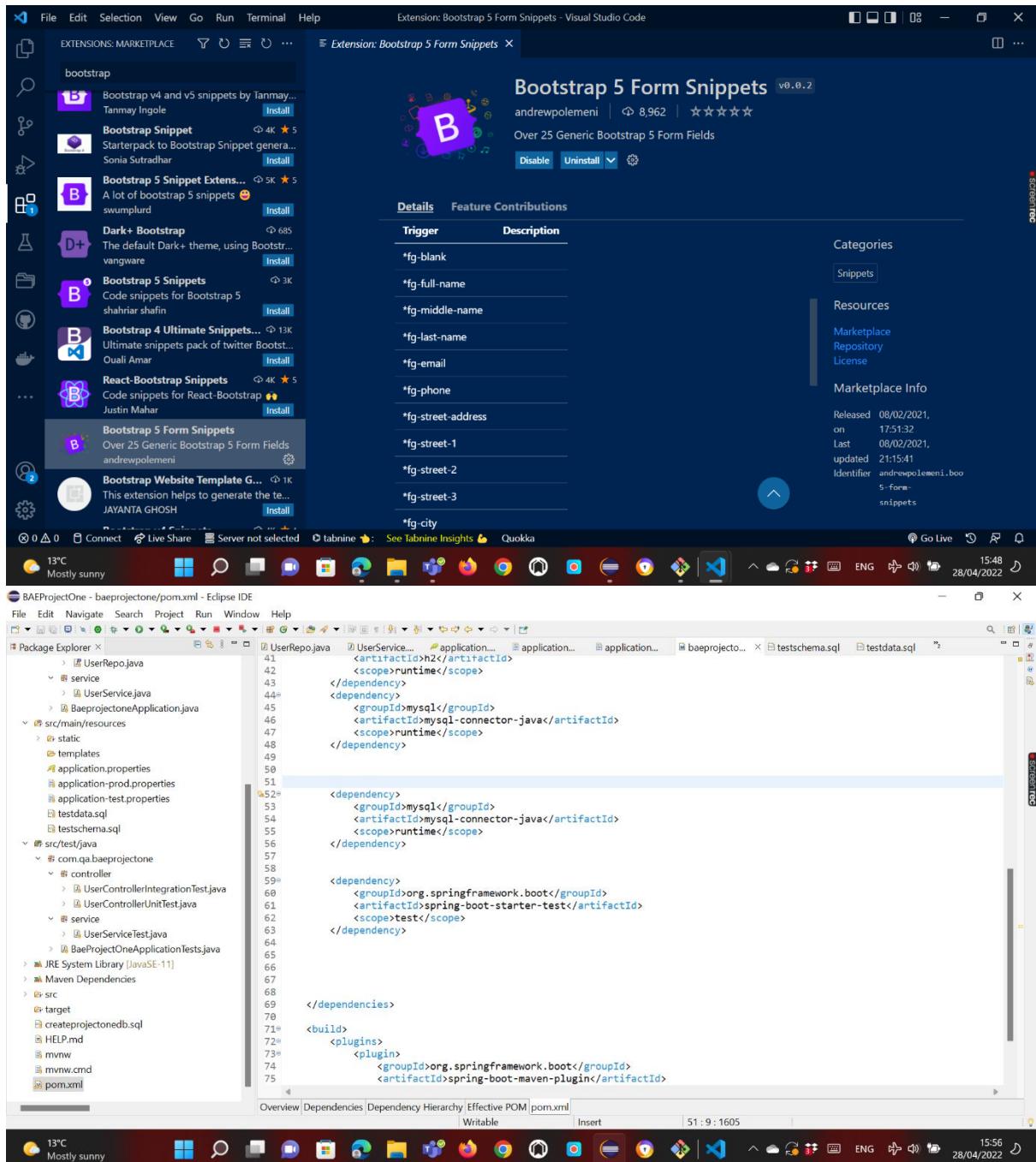
- Epic: BAEP-2 Frontend
 - BAEP-46 As a Developer I'm creating a Folders and Files for Front-end to make it easy to have great version control ... IN PROGRESS
 - BAEP-48 As a developer I'm using bootstrap to develop the front-end of the Web App because its simpler and looks ... IN PROGRESS
- Epic: BAEP-3 Documentation
 - BAEP-5 AS A DEVELOPER I WANT TO CREATE A RISK ASSESSMENT SO THAT I CAN PLAN ANY POTENTIAL RISKS IN THE PR... DONE
- Epic: BAEP-4 Testing
 - BAEP-47 As a Developer I'm crating test files to Junit test and Mockito test my API so that I can make sure that the s... IN PROGRESS

Visual Studio Code Extensions Marketplace:

- bootstrap
 - Bootstrap v4 and v5 snippets by Tanmay Ingole
 - Bootstrap Snippet
 - Bootstrap 5 Snippet Extens...
 - Dark+ Bootstrap
 - Bootstrap 5 Snippets
 - Bootstrap 4 Ultimate Snippets...
 - React-Bootstrap Snippets
 - Bootstrap 5 Form Snippets
 - Bootstrap Website Template G...

Taskbar Icons (Visible on both monitors):

- Recycle Bin
- git_demo2
- Microsoft Edge
- SAS Step Programme...
- Google Chrome
- Firefox
- PyCharm Community
- DPE_Give J...
- Personal - Edge
- Git Bash
- Visual Studio Code



```

MINGW64:/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone
annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 35, done.
Counting objects: 100% (35/35), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (21/21), done.
Writing objects: 100% (21/21), 3.04 KiB | 115.00 KiB/s, done.
Total 21 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), completed with 4 local objects.
To https://github.com/annisatessffaae/BAEProjectOne.git
  b9c3d02..006bb4f feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified: src/main/java/com/qa/baeprojectone/Controller/UserController.java
    modified: src/main/java/com/qa/baeprojectone/Domain/User.java
    modified: src/main/java/com/qa/baeprojectone/Service/UserService.java

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "AT: updated UserController.java by adding @DeleteMapping, updated UserService.java by adding -delete a user, updated User.java by adding new properties - phone number and address"
[feature-entity efc9b71] AT: updated UserController.java by adding @DeleteMapping, updated UserService.java by adding -delete a user, updated User.java by adding new properties - phone number and address
  3 files changed, 95 insertions(+), 23 deletions(-)

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 27, done.
Counting objects: 100% (27/27), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (14/14), 2.02 KiB | 689.00 KiB/s, done.
Total 14 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), completed with 5 local objects.
To https://github.com/annisatessffaae/BAEProjectOne.git
  006bb4f..efc9b71 feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$
```

13°C Mostly sunny

Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer UserControl... UserRepo.java UserService... application... Console application... application... testdata.sql User.java

```

30
31  @GetMapping("/getAll")
32  public ResponseEntity<List<User>> getAll() {
33      return new ResponseEntity<List<User>>(service.getAll(), HttpStatus.OK);
34  }
35
36  // Post
37  @PostMapping("/create") // localhost:12000/create
38  public ResponseEntity<User> create(@RequestBody User user) {
39      return new ResponseEntity<User>(service.create(user), HttpStatus.CREATED);
40  }
41
42  // Put
43  @PutMapping("/update/{id}") // localhost:12000/update/{id}
44  public ResponseEntity<User> update(@PathVariable long id, @RequestBody User user) {
45      return new ResponseEntity<User>(service.update(id, user), HttpStatus.ACCEPTED);
46  }
47
48  // Delete
49  @DeleteMapping("/delete/{id}") // localhost:12000/delete/{id}
50  public ResponseEntity<?> delete(@PathVariable long id) {
51      if (service.delete(id)) {
52          return new ResponseEntity<?>(HttpStatus.NO_CONTENT);
53      } else {
54          return new ResponseEntity<?>(HttpStatus.INTERNAL_SERVER_ERROR);
55      }
56
57  // Delete without Ternary If
58  // @DeleteMapping("/delete/{id}") //localhost:12000/delete/{id}
59  // public ResponseEntity<?> delete(@PathVariable long id) {
60  //     if (service.delete(id) == true) {
61  //         return new ResponseEntity<?>(HttpStatus.NO_CONTENT);
62  //     } else {
63  //         return new ResponseEntity<?>(HttpStatus.INTERNAL_SERVER_ERROR);
64  //     }
65 }
```

Writable Smart Insert 56:55:2138

16:16 28/04/2022

BAEProjectOne - baeprojectone/src/main/java/com/qa/baeprojectone/service/UserService.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Packager Explorer X
src/main/java
  com.qa.baeprojectone
    controller
      UserController.java
    domain
      User.java
    Exceptions
      UserNotFoundException.java
      UserNotFoundExceptionWithID.java
    repo
      UserRepository.java
    service
      UserService.java
      BaeprojectoneApplication.java
src/main/resources
  static
  templates
  application.properties
  application-prod.properties
  application-test.properties
  testdata.sql
  testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserControllerTest.java

```

```

19 // Get By ID (get one User)
20 public User getById(long id) {
21     return repo.findById(id).get(); // .get() will either get the User (if exists) OR throw NoSuchElementException
22 }
23
24 }
25
26 // Get ALL users
27 public List<User> getAll() {
28     return repo.findAll();
29 }
30
31 // Create a new user
32 public User create(User user) {
33     return repo.saveAndFlush(user);
34 }
35
36 // Update a user
37 public User update(long id, User user) {
38     User existing = repo.findById(id).get(); // Get the EXISTING user
39     existing.setFirstName(user.getFirstName()); // Change EXISTING user's first name to new user's first name.
40     existing.setLastName(user.getLastName()); // Change EXISTING user's last name to new user's last name.
41     existing.setUsername(user.getUsername()); // Change EXISTING user's username to new user's username.
42     existing.setPhoneNumber(user.getPhoneNumber()); // Change EXISTING user's phone number to new user's phone
43                                         // number.
44     existing.setAddress(user.getAddress()); // Change EXISTING user's phone number to new user's phone number.
45
46     return repo.saveAndFlush(existing);
47 }
48
49 // Delete a user
50 public boolean delete(long id) {
51     repo.deleteById(id);
52     return !repo.existsById(id);
53 }
54 }

```

Writable Smart Insert 54 : 2 : 1799

13°C Mostly sunny

MINGW64/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone

```

Enumerating objects: 27, done.
Counting objects: 100% (27/27), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (14/14), 2.02 KiB | 689.00 KiB/s, done.
Total 14 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), completed with 5 local objects.
To https://github.com/annisatessffaaye/BAEProjectOne.git
  006bb4f..efc9b71 feature-entity -> feature-entity

```

```

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified: src/main/java/com/qa/baeprojectone/domain/User.java
    modified: src/main/resources/testdata.sql
    modified: src/main/resources/testschema.sql

no changes added to commit (use "git add" and/or "git commit -a")

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .

```

```

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "Correct files to make sure new properties i.e. phone number nad address worked. In User.java I added parameters for the address and I made sure property was included in the testdata.sql and testschema.sql files"
[feature-entity b3eddef] AT: Correct files to make sure new properties i.e. phone number nad address worked. In User.java I added parameters for the address and I made sure properties were included in the testdata.sql and testschema.sql files
 3 files changed, 6 insertions(+), 6 deletions(-)

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 25, done.
Counting objects: 100% (25/25), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (9/9), done.
Writing objects: 100% (13/13), 1023 bytes | 511.00 KiB/s, done.
Total 13 (delta 6), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To https://github.com/annisatessffaaye/BAEProjectOne.git
  efcb971..b3eddef feature-entity -> feature-entity

```

16:17 28/04/2022

13°C Mostly sunny

MINGW64/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
\$ |

16:26 28/04/2022

```

MINGW64:/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone
Enumerating objects: 27, done.
Counting objects: 100% (27/27), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (14/14), 2.02 KiB | 689.00 KiB/s, done.
Total 14 (delta 6), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), completed with 5 local objects.
To https://github.com/annissatessffayye/BAEProjectOne.git
 006bb4f..efc9b71 feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes not staged for commit:
  (use "git add <file>" to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
        modified:  src/main/java/com/qa/baeprojectone/domain/User.java
        modified:  src/main/resources/testdata.sql
        modified:  src/main/resources/testschema.sql

no changes added to commit (use "git add" and/or "git commit -a")

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "AT: Correct files to make sure new properties i.e. phone number nad address worked. In User.java I added parameters for the address and I made sure properties were included in the testdata.sql and testschema.sql files"
[feature-entity b3ddef] AT: Correct files to make sure new properties i.e. phone number nad address worked. In User.java I added parameters for the address and I made sure properties were included in the testdata.sql and testschema.sql files
 3 files changed, 6 insertions(+), 6 deletions(-)

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 25, done.
Counting objects: 100% (25/25), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (9/9), done.
Writing objects: 100% (13/13), 1023 bytes | 511.00 KiB/s, done.
Total 13 (delta 6), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To https://github.com/annissatessffayye/BAEProjectOne.git
  efcb971..b3ddef feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$
```

11°C Cloudy

```

User(String firstName, String lastName, String username, String phoneNumber, String address) {
    super();
    this.firstName = firstName;
    this.lastName = lastName;
    this.username = username;
    this.phoneNumber = phoneNumber;
    this.address = address;
}

User(long id, String firstName, String lastName, String username, String phoneNumber, String address) {
    super();
    this.id = id;
    this.firstName = firstName;
    this.lastName = lastName;
    this.username = username;
    this.phoneNumber = phoneNumber;
    this.address = address;
}

@Override
public String toString() {
    return "Users [id=" + id + ", firstName=" + firstName + ", lastName=" + lastName + ", username=" + username
           + ", phoneNumber=" + phoneNumber +
           ", getId()=" + getId() + ", getFirstName()=" + getFirstName() + ", getLastname()=" + getLastname()
           + ", getUsername()=" + getUsername() + ", getPhoneNumber()=" + getPhoneNumber() +
           ", getAddress()=" + getAddress() +
           ", getClass()=" + getClass() + ", hashCode()=" + hashCode()
           + ", toString()=" + super.toString() + "]";
}
```

File Edit Source Refactor Navigate Search Project Run Window Help

20:05 28/04/2022

BAEProjectOne - baeprojectone/src/main/resources/testdata.sql - Eclipse IDE

```

File Edit Source Navigate Search Project Run Window Help
Package Explorer X UserControl... UserService... application... Console application... application... testschema.sql testdata.sql User.java
src/main/java
  com.qa.baeprojectone
    controller UserController.java
    domain User.java
    Exceptions UserNotFoundException.java UserNotFoundExceptionWithId.java
    repo UserRepository.java
    service UserService.java
  BaeprojectoneApplication.java
src/main/resources
  static
    templates
    application.properties
    application-prod.properties
    application-test.properties
    testdata.sql
    testschema.sql
src/test/java
  com.qa.baeprojectone
    controller UserControllerIntegrationTest.java UserControllerUnitTest.java
    service
  BaeprojectoneApplication.java

```

1 INSERT INTO `user` ('firstname', 'last_name', 'username', '--phone_number', 'address'
2) VALUES ('Tom', 'Jones', 'tjones1', '12345', '123st'
3);

11°C Cloudy Writable Insert 3 : 3 : 141 20:06 28/04/2022

BAEProjectOne - baeprojectone/src/main/resources/testschema.sql - Eclipse IDE

```

File Edit Source Navigate Search Project Run Window Help
Package Explorer X UserControl... UserService... application... Console application... application... testschema.sql testdata.sql User.java
src/main/java
  com.qa.baeprojectone
    controller UserController.java
    domain User.java
    Exceptions UserNotFoundException.java UserNotFoundExceptionWithId.java
    repo UserRepository.java
    service UserService.java
  BaeprojectoneApplication.java
src/main/resources
  static
    templates
    application.properties
    application-prod.properties
    application-test.properties
    testdata.sql
    testschema.sql
src/test/java
  com.qa.baeprojectone
    controller UserControllerIntegrationTest.java UserControllerUnitTest.java
    service
  BaeprojectoneApplication.java

```

1 DROP TABLE IF EXISTS user CASCADE;
2 CREATE TABLE user (
3 id INT AUTO_INCREMENT,
4 firstname VARCHAR(255) NOT NULL,
5 last_name VARCHAR(255) NOT NULL,
6 username VARCHAR(255) UNIQUE NOT NULL,
7 phone_number VARCHAR(255) UNIQUE NOT NULL,
8 address VARCHAR(255) NOT NULL,
9 PRIMARY KEY (ID)
10);

11°C Cloudy Writable Insert 8 : 5 : 239 20:06 28/04/2022

```

MINGW64:/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone
Delta compression using up to 8 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (13/13), 1023 bytes | 511.00 KiB/s, done.
Total 13 (delta 6), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To https://github.com/annisatessffaa/BAEProjectOne.git
  ef3b571..b3ed0ef feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes not staged for commit:
  (use "git add <file>" to update what will be committed)
  (use "git restore <file>" to discard changes in working directory)
    modified: src/main/java/com/qa/baeprojectone/controller/UserController.java
    modified: src/main/java/com/qa/baeprojectone/Exceptions/UserNotFoundException.java
    modified: src/main/java/com/qa/baeprojectone/Exceptions/UserNotFoundExceptionWithID.java
    modified: src/main/java/com/qa/baeprojectone/Repo/UserRepo.java
    modified: src/main/java/com/qa/baeprojectone/Service/UserService.java

no changes added to commit (use "git add" and/or "git commit -a")

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "AT: Created exception files: UserNotFoundException.java and UserNotFoundExceptionWithID.java, added exceptions to UserService.java, added custom query to UserRepo.java and corrected comments regarding port in UserController.java"
[feature-entity 4622a88] AT: Created exception files: UserNotFoundException.java and UserNotFoundExceptionWithID.java, added exceptions to UserService.java, added custom query to UserRepo.java and corrected comments regarding port in UserController.java
 5 files changed, 59 insertions(+), 16 deletions(-)

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ |

```

11°C Cloudy

```

UserController.java UserController.java UserService.java application.properties
1 package com.qa.baeprojectone.exceptions;
2
3 import javax.persistence.EntityNotFoundException;
4
5 /**
6  * 
7  */
8 @ResponseStatus(code = HttpStatus.NOT_FOUND, reason= "User does not exist with that ID")
9 public class UserNotFoundException extends EntityNotFoundException {
10
11 /**
12  * 
13  */
14 private static final long serialVersionUID = -4159324449523862724L;
15
16
17 }

```

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

- + baeprojectone [boot] [devtools] [Desktop main]
 - src/main/java
 - com.qa.baeprojectone
 - controller
 - UserController.java
 - domain
 - User.java
 - exceptions
 - UserNotFoundException.java
 - UserNotFoundExceptionWithID.java
 - repo
 - UserRepo.java
- service
 - UserService.java
- BaeprojectoneApplication.java

- src/main/resources
- static
- templates
- application.properties
- application-prod.properties
- application-test.properties
- testdata.sql
- testschema.sql
- src/test/java
- com.qa.baeprojectone
 - controller
 - UserControllerIntegrationTest.java
 - UserControllerUnitTest.java
- service
 - UserServiceTest.java

Writable Smart Insert 17 : 2 : 464

11°C Cloudy

BAEProjectOne - baeprojectone/src/main/java/com/qa/baeprojectone/exceptions/UserNotFoundExceptionWithID.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer UserController.java UserRepository.java UserService.java application.properties Console UserNotFoundExceptionWithID.java UserNotFoundException...
src/main/java com.qa.baeprojectone UserController.java
domain User.java
exceptions UserNotFoundException.java UserNotFoundExceptionWithID.java
repo UserRepository.java
service UserService.java
BaeprojectoneApplication.java
static templates application.properties application-prod.properties application-test.properties testdata.sql testschema.sql
src/test/java com.qa.baeprojectone UserControllerIntegrationTest.java UserControllerUnitTest.java
service UserSer...

```

Writable Smart Insert 6 : 63 : 204 20:45 28/04/2022

BAEProjectOne - baeprojectone/src/main/java/com/qa/baeprojectone/repo/UserRepo.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer UserController.java UserRepository.java UserService.java Console UserNotFoundException.java UserNotFoundExceptionWithID.java
src/main/java com.qa.baeprojectone UserController.java
controller UserController.java
domain User.java
exceptions UserNotFoundException.java UserNotFoundExceptionWithID.java
repo UserRepository.java
service UserService.java
BaeprojectoneApplication.java
static templates application.properties application-prod.properties application-test.properties testdata.sql testschema.sql
src/test/java com.qa.baeprojectone UserControllerIntegrationTest.java UserControllerUnitTest.java
service UserSer...

```

UserController.java

```

1 package com.qa.baeprojectone;
2
3 import javax.persistence.EntityNotFoundException;
4
5 import org.springframework.http.HttpStatus;
6 import org.springframework.web.bind.annotation.ResponseStatus;
7
8 @ResponseStatus(code = HttpStatus.NOT_FOUND)
9 public class UserNotFoundExceptionWithID extends EntityNotFoundException {
10
11     public UserNotFoundExceptionWithID(long id) {
12         super("User does not exist with ID: " + id);
13     }
14
15 }

```

Writable Smart Insert 16 : 2 : 442 20:47 28/04/2022

BAEProjectOne - baeprojectone/src/main/java/com/qa/baeprojectone/service/UserService.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Packager Explorer X
src/main/java
  com.qa.baeprojectone
    controller
      UserController.java
    domain
      User.java
    exceptions
      UserNotFoundException.java
      UserNotFoundExceptionWithID.java
    repo
      UserRepository.java
    service
      UserService.java
      BaeprojectoneApplication.java
src/main/resources
  static
  templates
  application.properties
  application-prod.properties
  application-test.properties
  testdata.sql
  testschemas.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserControllerTest.java

```

```

23 // Get By ID (get one User)
24 public User getById(long id) {
25     // return repo.findById(id).get(); // .get() will either get the User (if exists)
26     // Or throw NoSuchElementException
27     return repo.findById(id).orElseThrow(() -> new UserNotFoundExceptionWithID(id));
28     // return repo.findById(id).orElseThrow(UserNotFoundException::new);
29 }
30
31 // Get By Username (get one User)
32 public User getByUsername(String username) {
33     return repo.findByUsername(username).get();
34 }
35
36 // Create a new user
37 public User create(User user) {
38     return repo.saveAndFlush(user);
39 }
40
41 // Update a user
42 static
43     User existing = repo.findById(id).get(); // Get the EXISTING user
44     existing.setFirstName(user.getFirstName()); // Change EXISTING user's first name to new user's first name.
45     existing.setLastName(user.getLastName()); // Change EXISTING user's last name to new user's last name.
46     existing.setUsername(user.getUsername()); // Change EXISTING user's username to new user's username.
47     existing.setPhoneNumber(user.getPhoneNumber()); // Change EXISTING user's last name to new user's phone number.
48     existing.setAddress(user.getAddress()); // Change EXISTING user's username to new user's address.
49
50     return repo.saveAndFlush(existing);
51 }
52
53 // Delete a user
54 public boolean delete(long id) {
55     repo.deleteById(id);
56     return !repo.existsById(id);
57 }
58 }
```

Writable Smart Insert 52 : 1 : 1929

11°C Cloudy 20:47 28/04/2022

MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone

```

Total 17 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), completed with 4 local objects.
To https://github.com/annisatessffaa/BAEProjectOne.git
 b3edbeef..4622a88 feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   createprojectonedb.sql
    modified:   src/main/java/com/qa/baeprojectone/Controller/UserController.java
    modified:   src/main/java/com/qa/baeprojectone/Domain/User.java
    modified:   src/main/java/com/qa/baeprojectone/Repo/UserRepo.java
    modified:   src/main/java/com/qa/baeprojectone/Service/UserService.java
    modified:   src/main/resources/testdata.sql

no changes added to commit (use "git add" and/or "git commit -a")
```

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
\$ git add .
warning: LF will be replaced by CRLF in createprojectonedb.sql.
The file will have its original line endings in your working directory

```

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "AT updated createprojectonedb.sql to allow insert of 2 phone numbers and addresses. Corrected port comments in UserController.java, custom query in UserService.java, corrected UserRepo.java's code to look neater."
[feature-entity 132bb13] AT: updated createprojectonedb.sql to allow insert of 2 phone numbers and addresses. Corrected port comments in UserController.java, custom query in UserService.java, corrected UserRepo.java's code to look neater.
 6 files changed, 12 insertions(+), 14 deletions(-)

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 37, done.
Counting objects: 100% (37/37), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (12/12), done.
Writing objects: 100% (19/19), 1.56 KiB | 531.00 KiB/s, done.
Total 19 (delta 8), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (8/8), completed with 8 local objects.
To https://github.com/annisatessffaa/BAEProjectOne.git
 4622a88..132bb13 feature-entity -> feature-entity
```

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
\$ |

10°C Rain coming 23:00 28/04/2022

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

createprojectedb x baeprojectedb userschema

```

2 • DROP TABLE IF EXISTS user CASCADE;
3 • CREATE TABLE user (
4     id INT AUTO_INCREMENT,
5     firstname VARCHAR(255) NOT NULL,
6     last_name VARCHAR(255) NOT NULL,
7     username VARCHAR(255) UNIQUE NOT NULL,
8     PRIMARY KEY (ID)
9 )
10
11

```

Administration Schemas

Information

Table: user

Columns:

- id** int AI PK
- firstname** varchar(255)
- last_name** varchar(255)
- username** varchar(255)

Result Grid

| | id | firstname | last_name | username | address | phone_number |
|---|------|-----------|-----------|----------|---------|--------------|
| 1 | 1 | Jim | Jones | jones1 | NULL | NULL |
| 2 | 2 | Jim | Smith | tsmith1 | NULL | NULL |
| 3 | 4 | Jim1 | Jones1 | jones11 | 123st1 | 123451 |
| 4 | 5 | Jim1 | Smith1 | tsmith11 | 123st1 | 12341 |
| 5 | NULL | NULL | NULL | NULL | NULL | NULL |

Object Info Session user 6 x

SQL script saved to 'C:\Users\lannis\OneDrive\Desktop\BAEProjectOne\src\main\java\com\qa\baeprojectone\controller\UserController.java'

10°C Rain coming

Eclipse IDE

File Edit Source Refactor Search Project Run Window Help

Package Explorer

- com.qa.baeprojectone
 - controller
 - domain
 - Exceptions
 - repo
 - service
 - BaeprojectoneApplication.java
- src/main/java
 - com.qa.baeprojectone
 - UserController.java
 - User.java
 - UserNotFoundException.java
 - UserNotFoundExceptionW.java
 - UserRepo.java
 - UserService.java
 - BaeprojectoneApplication.java
- src/main/resources
 - static
 - application.properties
- src/test/java
 - com.qa.baeprojectone
- Maven Dependencies
- src
 - target
 - HELP.md

Problems x Javadoc Declaration

0 errors, 3 warnings, 0 others

Resource Path Location Type

1 UserJava UserController.java x UserRepo.java UserService.java UserControllerIntegrationTest.java application.properties

1 package com.qa.baeprojectone.controller;

4* import org.springframework.web.bind.annotation.GetMapping;

10 @RestController

12 public class UserController {

13 private UserService service;

16 public UserController(UserService service) {

17 this.service = service;

18 }

20 // Get by ID (get one User)

21 @GetMapping("/getById/{id}") // localhost:11000/getById{id}

22 public User getById(@PathVariable long id) {

23 return service.getById(id);

24 }

25 }

26 // @GetMapping("/getAll") // localhost:11000/getAll

27 // Post

29 // Put/Patch

31 // Delete

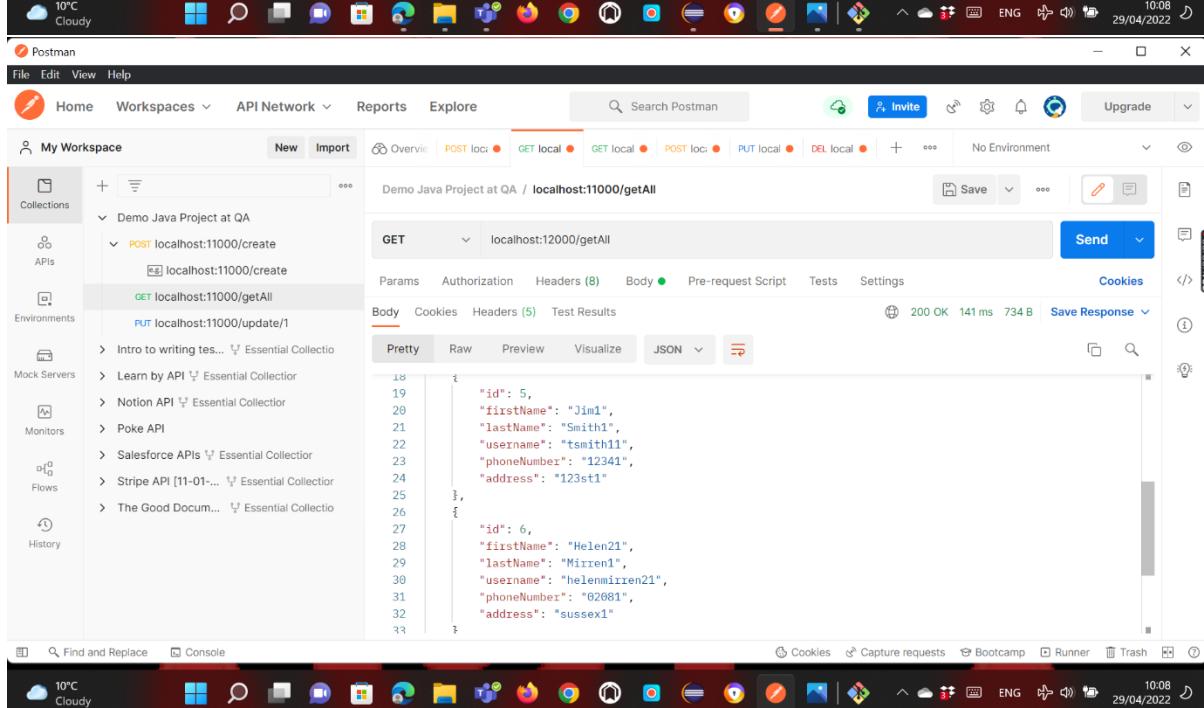
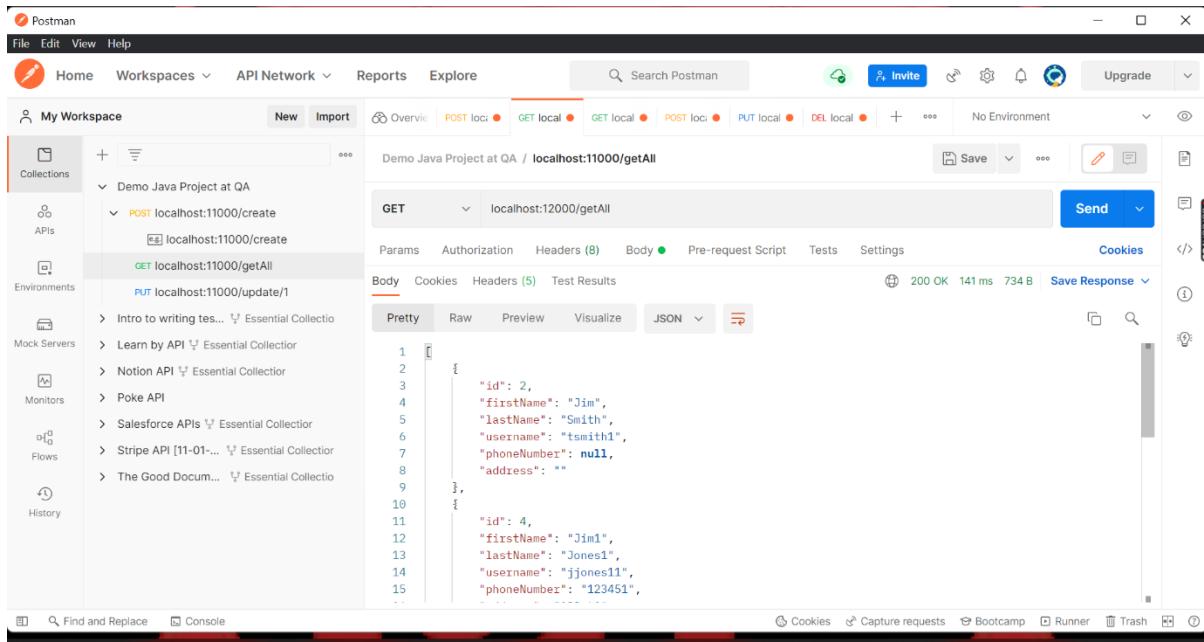
33 }

34 }

35

10°C Partly sunny

28/04/2022 09:51



Postman

File Edit View Help

Home Workspaces API Network Reports Explore

Overview POST local GET local POST local PUT local DEL local + ... No Environment

Search Postman

Invite

Upgrade

My Workspace

New Import

Demo Java Project at QA / localhost:11000/getAll

GET localhost:12000/getAll

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON

28 "firstName": "Helen21",
29 "lastName": "Mirren1",
30 "username": "helenmirren21",
31 "phoneNumber": "020811",
32 "address": "sussex1"
33 },
34 {
35 "id": 7,
36 "firstName": "Helen211",
37 "lastName": "Mirren11",
38 "username": "helenmirren211",
39 "phoneNumber": "020811",
40 "address": "sussex11"
41 }
42]

200 OK 141 ms 734 B Save Response

Find and Replace Console

Cookies Capture requests Bootcamp Runner Trash

10:08 29/04/2022

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

Overview POST local GET local POST local PUT local DEL local + ... No Environment

Search Postman

Invite

Upgrade

My Workspace

New Import

localhost:12000/getByid/5

GET localhost:12000/getByid/5

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON

1 {
2 "id": 5,
3 "firstName": "Jim1",
4 "lastName": "Smith1",
5 "username": "tsmith11",
6 "phoneNumber": "12341",
7 "address": "123st1"
8 }

200 OK 55 ms 274 B Save Response

Find and Replace Console

Cookies Capture requests Bootcamp Runner Trash

10:08 29/04/2022

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

localhost:12000/create

POST localhost:12000/create

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

Body

```
1
2   ...
3     "firstName": "Helen2112",
4     "lastName": "Mirren112",
5     "username": "helenmire2112",
6     "phoneNumber": "0208112",
7     "address": "sussex112"
```

201 Created 94 ms 299 B Save Response

PUT localhost:12000/update/1

Body

```
1
2   ...
3     "id": 8,
4     "firstName": "Helen2112",
5     "lastName": "Mirren112",
6     "username": "helenmire2112",
7     "phoneNumber": "0208112",
8     "address": "sussex112"
```

202 Accepted 847 ms 286 B Save Response

Find and Replace Console

10°C Cloudy

Postman

File Edit View Help

Home Workspaces API Network Reports Explore

Demo Java Project at QA / localhost:11000/update/1

PUT localhost:12000/update/8

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

Body

```
1
2   ...
3     "id": 8,
4     "firstName": "Helen4",
5     "lastName": "Mirren4",
6     "username": "helenmire4",
7     "phoneNumber": "7894",
8     "address": "7894"
```

202 Accepted 847 ms 286 B Save Response

Find and Replace Console

10°C Cloudy

The screenshot shows two separate instances of the Postman application running side-by-side on a Windows desktop.

Top Window (localhost:12000/delete/8):

- Request:** DELETE localhost:12000/delete/8
- Body (JSON):**

```
1
2   "firstName": "Helen4",
3   "lastName": "Mirren4",
4   "username": "helenmirren4",
5   "phoneNumber": "7894",
6   "address": "7894st"
```

- Response:** 204 No Content, 365 ms, 112 B

Bottom Window (localhost:12000/create):

- Request:** POST localhost:12000/create
- Body (JSON):**

```
1
2   "firstName": "Helen4",
3   "lastName": "Mirren4",
4   "username": "helenmirren4",
5   "phoneNumber": "7894",
6   "address": "7894st"
```

- Response:** 201 Created, 23 ms, 285 B

The Postman interface includes a sidebar with collections, environments, mock servers, monitors, flows, and history. The main workspace shows a collection named "Demo Java Project at QA" with various API endpoints like POST localhost:11000/create, GET localhost:11000/getAll, and PUT localhost:11000/update/1.

```

MINGW64:/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 33, done.
Counting objects: 100% (32/32), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (20/20), done.
Writing objects: 100% (20/20), 5.04 KiB | 1.68 MiB/s, done.
Total 18 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 3 local objects.
To https://github.com/annissatessffaae/BAEProjectOne.git
  132bb13..f430052 feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch feature-entity
Your branch is up to date with 'origin/feature-entity'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
           modified: src/test/java/com/qa/baeprojectone/BaeProjectOneApplicationTests.java
           modified: src/test/java/com/qa/baeprojectone/Controller/UserControllerIntegrationTest.java
           modified: src/test/java/com/qa/baeprojectone/Service/UserServiceTest.java

no changes added to commit (use "git add" and/or "git commit -a")

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "AT: Created BaeProjectOneApplicationTests.java, corrected mistakes in UserControllerIntegrationTest.java and UserServiceTest.java"
[feature-entity dcc7025] AT: Created BaeProjectOneApplicationTests.java, corrected mistakes in UserControllerIntegrationTest.java and UserServiceTest.java
 3 files changed, 97 insertions(+), 1 deletion(-)

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 25, done.
Counting objects: 100% (25/25), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (13/13), 1.68 KiB | 859.00 KiB/s, done.
Total 13 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/annissatessffaae/BAEProjectOne.git
  f430052..dcc7025 feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$
```

10°C Cloudy 10:35 29/04/2022

Eclipse IDE - BAEProjectOne - baeprojectone/src/test/java/com/qa/baeprojectone/BaeProjectOneApplicationTests.java

```

1 package com.qa.baeprojectone;
2
3 import org.junit.jupiter.api.Test;
4 import org.springframework.boot.test.context.SpringBootTest;
5
6@SpringBootTest
7 class BaeProjectOneApplicationTests {
8     @Test
9     void contextLoads() {
10
11 }
12 }
```

File Edit Source Refactor Navigate Search Project Run Window Help

10°C Cloudy 10:35 29/04/2022

BAEProjectOne - baeprojectone/src/test/java/com/qa/baeprojectone/service/UserServiceTest.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit Console index.js baeprojecto... UserController... UserController... UserService... testdata.sql testschema.sql BaeProjectO...
src/main/java
  com.qa.baeprojectone
    controller
    domain
    exceptions
    repo
    service
    BaeprojectoneApplication.java
src/main/resources
  static
  templates
  application.properties
  application-prod.properties
  application-test-properties
  testdata.sql
  testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java
      BaeProjectOneApplicationTests.java
JRE System Library [JavaSE-11]
Maven Dependencies
src
  main
  test
  target
10°C Cloudy 10:36 29/04/2022
BAEProjectOne - baeprojectone/src/test/java/com/qa/baeprojectone/service/UserServiceTest.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit Console index.js baeprojecto... UserController... UserController... UserService... testdata.sql testschema.sql BaeProjectO...
src/main/java
  com.qa.baeprojectone
    controller
    domain
    exceptions
    repo
    service
    BaeprojectoneApplication.java
src/main/resources
  static
  templates
  application.properties
  application-prod.properties
  application-test-properties
  testdata.sql
  testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java
      BaeProjectOneApplicationTests.java
JRE System Library [JavaSE-11]
Maven Dependencies
src
  main
  test
  target
10°C Cloudy 10:36 29/04/2022

```

UserServiceTest.java (Top)

```

package com.qa.baeprojectone.service;

import static org.junit.jupiter.api.Assertions.*;
import java.util.ArrayList;
import java.util.List;
import java.util.Optional;
import org.junit.jupiter.api.Test;
import org.mockito.Mockito;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.boot.test.mock.mockito.MockBean;
import com.qa.baeprojectone.domain.User;
import com.qa.baeprojectone.repo.UserRepo;
import com.qa.baeprojectone.service.UserService;

@SpringBootTest
public class UserServiceTest {

    @Autowired
    private UserService service;

    @MockBean
    private UserRepo repo;

    @Test
    public void getAllTest() {
        List<User> output = new ArrayList<>();
        output.add(new User("Tom", "Jones", "tjones1", "12345", "123st"));
        Mockito.when(this.repo.findAll()).thenReturn(output);
        assertEquals(output, this.service.getAll());
        Mockito.verify(this.repo, Mockito.times(1)).findAll();
    }
}

```

UserServiceTest.java (Bottom)

```

38= @Test
39=     public void getByIdTest() {
40=         Optional<User> optionalOutput = Optional.of(new User(1L, "Tom", "Jones", "tjones1", "12345", "123st"));
41=         User output = new User(1L, "Tom", "Jones", "tjones1", "12345", "123st");
42=         Mockito.when(this.repo.findById(1L)).thenReturn(optionalOutput);
43=         assertEquals(output, this.service.getById(1L));
44=         Mockito.verify(this.repo, Mockito.times(1)).findById(1L);
45=     }
46=
47=     @Test
48=     public void createTest() {
49=         User input = new User("Tom", "Jones", "tjones1", "12345", "123st");
50=         User output = new User(1L, "Tom", "Jones", "tjones1", "12345", "123st");
51=         Mockito.when(this.repo.saveAndFlush(input)).thenReturn(output);
52=         assertEquals(output, this.service.create(input));
53=         Mockito.verify(this.repo, Mockito.times(1)).saveAndFlush(input);
54=     }
55=
56=     @Test
57=     public void updateTest() {
58=         User input = new User("Tom", "Jones", "tjones1", "12345", "123st");
59=         Optional<User> existing = Optional.of(new User(1L, "Jim", "Jones", "jjones1", "12345", "123st"));
60=         User output = new User(1L, "Tom", "Jones", "tjones1", "12345", "123st");
61=         Mockito.when(this.repo.findById(1L)).thenReturn(existing);
62=         Mockito.when(this.repo.saveAndFlush(output)).thenReturn(output);
63=         assertEquals(output, this.service.update(1L, input));
64=         Mockito.verify(this.repo, Mockito.times(1)).findById(1L);
65=     }
}

```

BAEProjectOne - baeprojectone/src/test/java/com/qa/baeprojectone/service/UserServiceTest.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit Console indexjs baeprojecto... UserController... UserService... testdata.sql testschema.sql BaeProjectO...
src/main/java
  com.qa.baeprojectone
    controller
    domain
    exceptions
    repo
    service
    BaeprojectoneApplication.java
src/main/resources
  static
  templates
  application.properties
  application-prod.properties
  application-test-properties
  testdata.sql
  testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java
      BaeProjectOneApplicationTests.java
JRE System Library [JavaSE-11]
Maven Dependencies
src
  main
  test
  target
  
```

```

51  public void createTest() {
52    User input = new User("Tom", "Jones", "tjones1", "12345", "123st");
53    User output = new User(1L, "Tom", "Jones", "tjones1", "12345", "123st");
54
55    Mockito.when(this.repo.saveAndFlush(input)).thenReturn(output);
56
57    assertEquals(output, this.service.create(input));
58
59    Mockito.verify(this.repo, Mockito.times(1)).saveAndFlush(input);
60  }
61
62  @Test
63  public void updateTest() {
64    User input = new User("Tom", "Jones", "tjones1", "12345", "123st");
65    Optional<User> existing = Optional.of(new User(1L, "Jim", "Jones", "jones1", "12345", "123st"));
66    User output = new User(1L, "Tom", "Jones", "tjones1", "12345", "123st");
67
68    Mockito.when(this.repo.findById(1L)).thenReturn(existing);
69    Mockito.when(this.repo.saveAndFlush(output)).thenReturn(output);
70
71    assertEquals(output, this.service.update(1L, input));
72
73    Mockito.verify(this.repo, Mockito.times(1)).findById(1L);
74    Mockito.verify(this.repo, Mockito.times(1)).saveAndFlush(output);
75  }
76
77  @Test
78  public void deleteTest() {
79    Mockito.when(this.repo.existsById(1L)).thenReturn(false);
80
81    assertTrue(this.service.delete(1L));
82
83    Mockito.verify(this.repo, Mockito.times(1)).deleteById(1L);
84    Mockito.verify(this.repo, Mockito.times(1)).existsById(1L);
85  }
86
  
```

Writable Smart Insert 27 : 29 : 694

10°C Cloudy 10:36 29/04/2022

BAEProjectOne - baeprojectone/src/test/java/com/qa/baeprojectone/controller/UserControllerUnitTest.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit Console indexjs baeprojecto... UserController... UserService... testdata.sql testschema.sql BaeProjectO...
src/main/java
  com.qa.baeprojectone
    controller
    domain
    exceptions
    repo
    service
    BaeprojectoneApplication.java
src/main/resources
  static
  templates
  application.properties
  application-prod.properties
  application-test-properties
  testdata.sql
  testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java
      BaeProjectOneApplicationTests.java
JRE System Library [JavaSE-11]
Maven Dependencies
src
  main
  test
  target
  
```

```

1 package com.qa.baeprojectone.controller;
2
3 import static org.springframework.test.web.servlet.request.MockMvcRequestBuilders.delete;
4 import static org.springframework.test.web.servlet.request.MockMvcRequestBuilders.get;
5 import static org.springframework.test.web.servlet.request.MockMvcRequestBuilders.post;
6 import static org.springframework.test.web.servlet.request.MockMvcRequestBuilders.put;
7 import static org.springframework.test.web.servlet.result.MockMvcResultMatchers.content;
8 import static org.springframework.test.web.servlet.result.MockMvcResultMatchers.status;
9
10 import java.util.ArrayList;
11 import java.util.List;
12 import org.junit.jupiter.api.Test;
13 import org.mockito.Mockito;
14 import org.springframework.beans.factory.annotation.Autowired;
15 import org.springframework.boot.test.autoconfigure.web.servlet.WebMvcTest;
16 import org.springframework.boot.test.mock.mockito.MockBean;
17 import org.springframework.http.MediaType;
18 import org.springframework.test.web.servlet.MockMvc;
19 import com.fasterxml.jackson.databind.ObjectMapper;
20 import com.qa.baeprojectone.domain.User;
21 import com.qa.baeprojectone.service.UserService;
22
23 @WebMvcTest
24 public class UserControllerUnitTest {
25
26  @Autowired
27  private MockMvc mvc;
28
29  @Autowired
30  private ObjectMapper mapper;
31
32  @MockBean
33  private UserService service;
34
35  @Test
36  void createTest() throws Exception {
  
```

Writable Smart Insert 74 : 55 : 2847

10°C Cloudy 10:36 29/04/2022

BAEProjectOne - baeprojectone/src/test/java/com/qa/baeprojectone/controller/UserControllerUnitTest.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit Console index.js baeprojectone UserController... UserController... UserService... testdata.sql testschema.sql BaeProjectO...
src/main/java
  com.qa.baeprojectone
    controller
    domain
    exceptions
    repo
    service
    BaeprojectoneApplication.java
src/main/resources
src/templates
application.properties
application-prod.properties
application-test-properties
testdata.sql
testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java
      BaeProjectOneApplicationTests.java
JRE System Library [JavaSE-11]
Maven Dependencies
src
  main
  test
  target
34
35  @Test
36  void createTest() throws Exception {
37   User entry = new User("Tom", "Jones", "tjones1", "12346", "123st");
38   String entryAsJSON = this.mapper.writeValueAsString(entry);
39
40   Mockito.when(this.service.create(entry)).thenReturn(entry);
41
42   mvc.perform(post("/user/create")
43     .contentType(MediaType.APPLICATION_JSON)
44     .content(entryAsJSON))
45     .andExpect(status().isCreated())
46     .andExpect(content().json(entryAsJSON));
47 }
48
49  @Test
50  public void getAllTest() throws Exception {
51   User entry = new User("Tom", "Jones", "tjones1", "12346", "123st");
52   List<User> output = new ArrayList<>();
53   output.add(entry);
54   String outputAsJSON = this.mapper.writeValueAsString(output);
55
56   Mockito.when(this.service.getAll()).thenReturn(output);
57
58   mvc.perform(get("/user/getAll")
59     .contentType(MediaType.APPLICATION_JSON)
60     .andExpect(status().isOk())
61     .andExpect(content().json(outputAsJSON)));
62 }
63
64  @Test
65  public void getByIdTest() throws Exception {
66   User entry = new User("Tom", "Jones", "tjones1", "12346", "123st");
67   String entryAsJSON = this.mapper.writeValueAsString(entry);
68
69   Mockito.when(this.service.getById(1L)).thenReturn(entry);
70
71   mvc.perform(get("/user/getById/{id}")
72     .contentType(MediaType.APPLICATION_JSON)
73     .andExpect(status().isOk())
74     .andExpect(content().json(entryAsJSON)));
75 }
76
77  @Test
78  public void updateTest() throws Exception {
79   User entry = new User("Tom", "Jones", "tjones1", "12346", "123st");
80   String entryAsJSON = this.mapper.writeValueAsString(entry);
81
82   Mockito.when(this.service.update(1L, entry)).thenReturn(entry);
83
84   mvc.perform(put("/user/update/{id}")
85     .contentType(MediaType.APPLICATION_JSON)
86     .content(entryAsJSON))
87     .andExpect(status().isAccepted())
88     .andExpect(content().json(entryAsJSON));
89 }
90
91  @Test
92  public void deleteTest() throws Exception {
93   Mockito.when(this.service.delete(1L)).thenReturn(true);
94
95   mvc.perform(delete("/user/delete/{id}")
96     .contentType(MediaType.APPLICATION_JSON))
97     .andExpect(status().isNoContent());
98 }
99

```

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BAEProjectOne - baeprojectone/src/test/java/com/qa/baeprojectone/controller/UserControllerUnitTest.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit Console index.js baeprojectone UserController... UserController... UserService... testdata.sql testschema.sql BaeProjectO...
src/main/java
  com.qa.baeprojectone
    controller
    domain
    exceptions
    repo
    service
    BaeprojectoneApplication.java
src/main/resources
src/templates
application.properties
application-prod.properties
application-test-properties
testdata.sql
testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java
      BaeProjectOneApplicationTests.java
JRE System Library [JavaSE-11]
Maven Dependencies
src
  main
  test
  target
64
65  @Test
66  public void getByIdTest() throws Exception {
67   User entry = new User("Tom", "Jones", "tjones1", "12346", "123st");
68   String entryAsJSON = this.mapper.writeValueAsString(entry);
69
70   Mockito.when(this.service.getById(1L)).thenReturn(entry);
71
72   mvc.perform(get("/user/getById/{id}")
73     .contentType(MediaType.APPLICATION_JSON)
74     .andExpect(status().isOk())
75     .andExpect(content().json(entryAsJSON)));
76 }
77
78  @Test
79  public void updateTest() throws Exception {
80   User entry = new User("Tom", "Jones", "tjones1", "12346", "123st");
81   String entryAsJSON = this.mapper.writeValueAsString(entry);
82
83   Mockito.when(this.service.update(1L, entry)).thenReturn(entry);
84
85   mvc.perform(put("/user/update/{id}")
86     .contentType(MediaType.APPLICATION_JSON)
87     .content(entryAsJSON))
88     .andExpect(status().isAccepted())
89     .andExpect(content().json(entryAsJSON));
90 }
91
92  @Test
93  public void deleteTest() throws Exception {
94   Mockito.when(this.service.delete(1L)).thenReturn(true);
95
96   mvc.perform(delete("/user/delete/{id}")
97     .contentType(MediaType.APPLICATION_JSON))
98     .andExpect(status().isNoContent());
99 }

```

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BAEProjectOne - baeprojectone/src/test/java/com/qa/baeprojectone/controller/UserControllerUnitTest.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer JUnit
src/main/java
  com.qa.baeprojectone
    controller
    domain
    exceptions
    repo
    service
    BaeprojectoneApplication.java
src/main/resources
  static
  templates
  application.properties
  application-prod.properties
  application-test.properties
  testdata.sql
  testschema.sql
src/test/java
  com.qa.baeprojectone
    controller
      UserControllerIntegrationTest.java
      UserControllerUnitTest.java
    service
      UserServiceTest.java
      BaeProjectOneApplicationTests.java
JRE System Library [JavaSE-11]
Maven Dependencies
src
  main
    test
  test

```

```

73     .andExpect(status().isOk())
74     .andExpect(content().json(entryAsJSON)));
75   }
76
77   @Test
78   public void updateTest() throws Exception {
79     User entry = new User("Tom", "Jones", "tjones1", "12346", "123st");
80     String entryAsJSON = this.mapper.writeValueAsString(entry);
81
82     Mockito.when(this.service.update(1L, entry)).thenReturn(entry);
83
84    .mvc.perform(put("/user/update/1")
85       .contentType(MediaType.APPLICATION_JSON)
86       .content(entryAsJSON))
87       .andExpect(status().isAccepted())
88       .andExpect(content().json(entryAsJSON));
89   }
90
91   @Test
92   public void deleteTest() throws Exception {
93     Mockito.when(this.service.delete(1L)).thenReturn(true);
94
95     mvc.perform(delete("/user/delete/1")
96       .contentType(MediaType.APPLICATION_JSON))
97       .andExpect(status().isNoContent());
98   }
99
100  @Test
101  public void deleteFailTest() throws Exception {
102    Mockito.when(this.service.delete(2L)).thenReturn(false);
103
104    mvc.perform(delete("/user/delete/2")
105      .contentType(MediaType.APPLICATION_JSON))
106      .andExpect(status().isInternalServerError());
107  }
108 }

```

Writtable Smart Insert 74 : 55 : 2847

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BAEProjectOne - baeprojectone/src/test/java/com/qa/baeprojectone/BaeProjectOneApplicationTests.java - Eclipse IDE

```

File Edit Source Refactor Navigate Project Run Window Help
Package Explorer JUnit
Finished after 10.490 seconds
Runs: 1/1 Errors: 0 Failures: 0
BaeProjectOneApplicationTests [Runner: JUnit 5] (0.2s)

```

```

1 package com.qa.baeprojectone;
2
3 import org.junit.jupiter.api.Test;
4 import org.springframework.boot.test.context.SpringBootTest;
5
6@SpringBootTest
7 class BaeProjectOneApplicationTests {
8
9   @Test
10  void contextLoads() {
11
12 }

```

Failure Trace

10°C Cloudy 10:37 29/04/2022

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

createprojectionedb × baeprojectionedb userschema

14
15 • INSERT INTO user (firstname, last_name, username, phone_number, address) VALUES ("jim1", "Jones1", "jjones11", "123451", "123st1");
16 • INSERT INTO user (firstname, last_name, username, phone_number, address) VALUES ("jim1", "Smith1", "tsmith11", "12341", "123st1");
17
18-----
19
20 • SELECT * FROM baeprojectionedb.user;
21-----
22
23 • use baeprojectionedb;
24 • INSERT INTO user (firstname, last_name, username, phone_number, address) VALUES ("Tom", "Jones", "tjones1", "12345", "123st");
25
26 • SELECT * FROM baeprojectionedb.user;

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|--|-------------------|-----------------------|
| 1 | 10:42:45 | SELECT * FROM baeprojectionedb.user LIMIT 0, 1000 | 6 row(s) returned | 0.063 sec / 0.000 sec |
| 2 | 10:45:20 | use baeprojectionedb | 0 row(s) affected | 0.015 sec |
| 3 | 10:45:20 | INSERT INTO user (firstname, last_name, username, phone_number, address) VALUES ("Tom", "Jones", "tjones1", "12345", "123st"); | 1 row(s) affected | 0.031 sec |

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

createprojectionedb × baeprojectionedb userschema

21-----
22
23 • use baeprojectionedb;
24 • INSERT INTO user (firstname, last_name, username, phone_number, address) VALUES ("Tom", "Jones", "tjones1", "12345", "123st");
25
26 • SELECT * FROM baeprojectionedb.user;

Result Grid | Filter Rows: | Edit: | Export/Imports: | Wrap Cell Contents: |

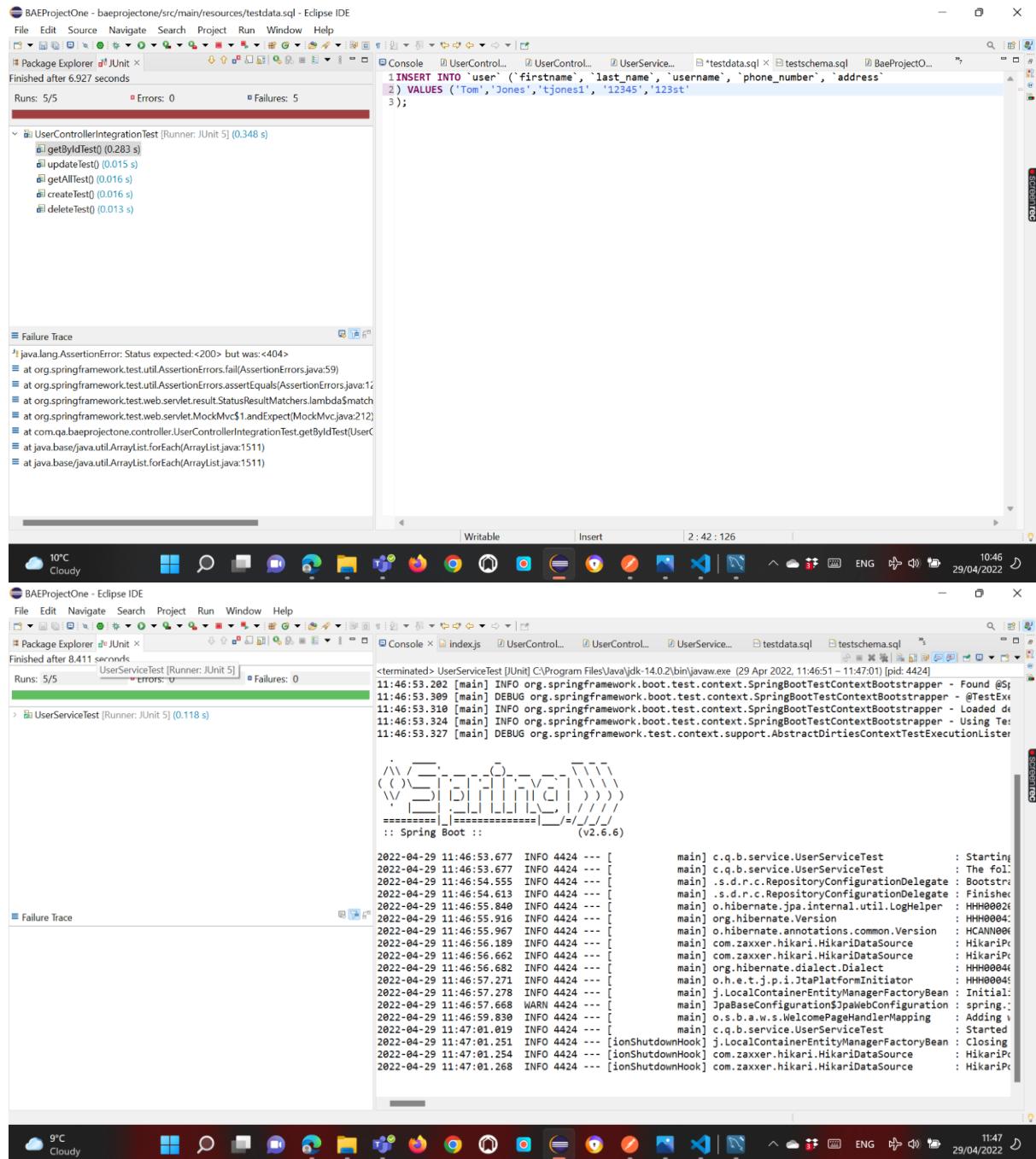
| | id | firstname | last_name | username | address | phone_number |
|----|----------|-----------|---------------|----------|---------|--------------|
| 6 | Helen21 | Miren1 | helenmiren21 | sussex1 | 02081 | |
| 7 | Helen211 | Miren11 | helenmiren211 | sussex11 | 020811 | |
| 9 | Helen4 | Miren4 | helenmiren4 | 7894st | 7894 | |
| 10 | Tom | Jones | tjones1 | 123st | 12345 | |
| | NULL | NULL | NULL | NULL | NULL | NULL |

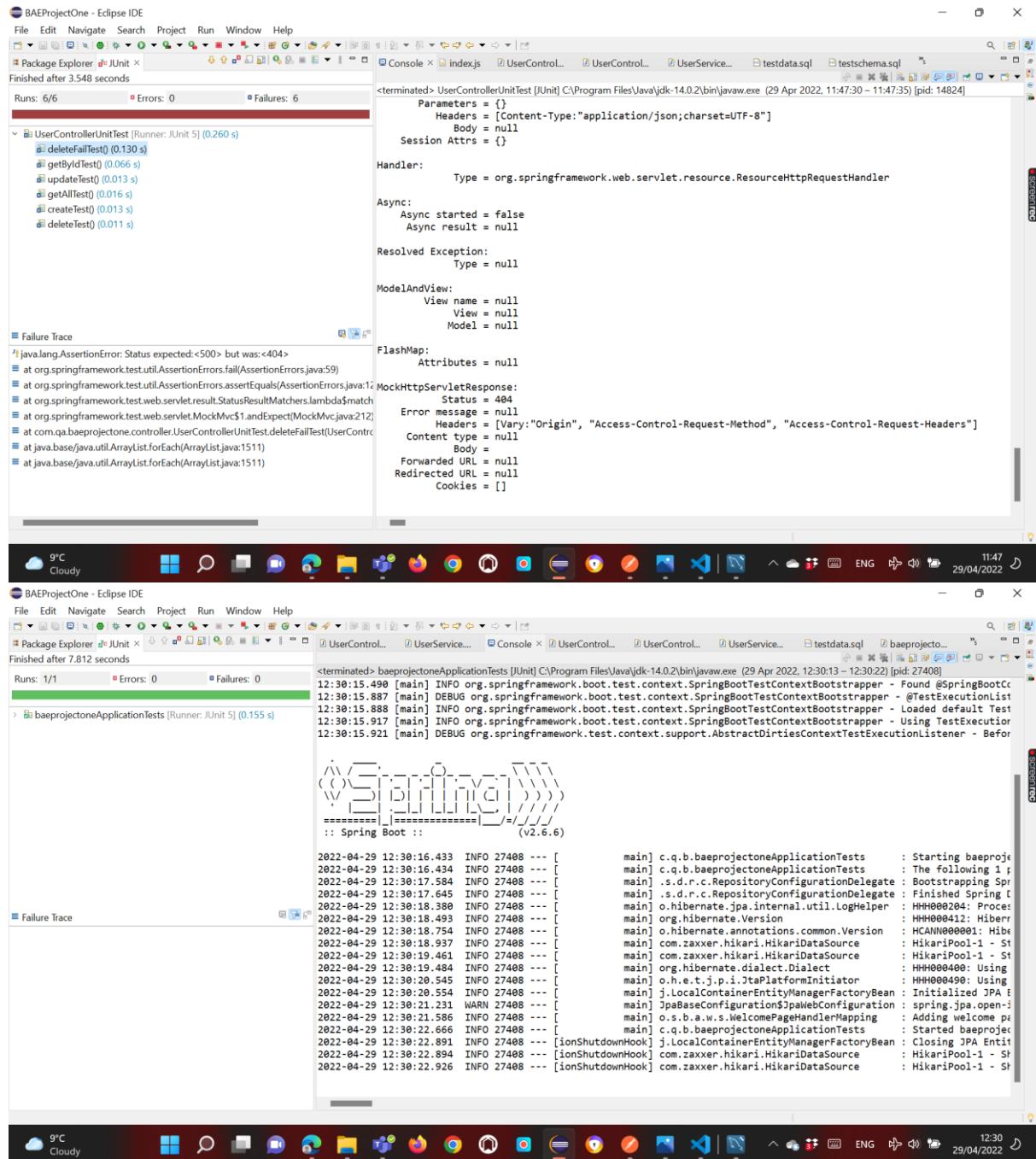
user 2 ×

Output

Action Output

| # | Time | Action | Message | Duration / Fetch |
|---|----------|--|-------------------|-----------------------|
| 1 | 10:42:45 | SELECT * FROM baeprojectionedb.user LIMIT 0, 1000 | 6 row(s) returned | 0.063 sec / 0.000 sec |
| 2 | 10:45:20 | use baeprojectionedb | 0 row(s) affected | 0.015 sec |
| 3 | 10:45:20 | INSERT INTO user (firstname, last_name, username, phone_number, address) VALUES ("Tom", "Jones", "tjones1", "12345", "123st"); | 1 row(s) affected | 0.031 sec |
| 4 | 10:46:03 | SELECT * FROM baeprojectionedb.user LIMIT 0, 1000 | 7 row(s) returned | 0.000 sec / 0.000 sec |





BAEProjectOne - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Packager Explorer JUnit x Finished after 10.139 seconds

Runs: 5/5 Errors: 0 Failures: 5

UserControllerIntegrationTest [Runner: JUnit 5] (0.469 s)

- getByIdTest() (0.040 s)
- updateTest() (0.014 s)
- getAllTest() (0.020 s)
- createTest() (0.016 s)
- deleteTest() (0.015 s)

Handler:

```
Type = org.springframework.web.servlet.resource.ResourceHttpRequestHandler
```

Async:

```
Async started = false
Async result = null
```

Resolved Exception:

```
Type = null
```

ModelAndView:

```
View name = null
View = null
Model = null
```

FlashMap:

```
Attributes = null
```

MockHttpServletRequest:

```
Status = 404
Error message = null
Headers = [Vary:"Origin", "Access-Control-Request-Method", "Access-Control-Request-Headers"]
Content type = null
Body =
Forwarded URL = null
Redirected URL = null
Cookies = []
```

Failure Trace

```
java.lang.AssertionError: Status expected:<200> but was:<404>
at org.springframework.test.util.AssertionErrors.fail(AssertionErrors.java:151)
at org.springframework.test.util.AssertionErrors.assertEquals(AssertionErrors.java:151)
at org.springframework.test.web.servlet.result.StatusResultMatchers$1.matches(StatusResultMatchers.java:151)
at org.springframework.test.web.servlet.MockMvc$1.andExpect(MockMvc.java:151)
at com.qa.baeprojectone.controller.UserServiceIntegrationTest.get(UserServiceIntegrationTest.java:151)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
```

2022-04-29 12:31:35.209 INFO 23816 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory
2022-04-29 12:31:35.209 INFO 23816 --- [ionShutdownHook] .SchemaDropperImpl\$DelayedDropActionImpl : HHH000477: Starting
Hibernate: drop table if exists user CASCADE
2022-04-29 12:31:35.216 INFO 23816 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated!
2022-04-29 12:31:35.218 INFO 23816 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed!

9°C Cloudy 12:31 29/04/2022

BAEProjectOne - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Packager Explorer JUnit x Finished after 15.491 seconds

Runs: 17/17 Errors: 0 Failures: 11

UserServiceTest [Runner: JUnit 5] (0.143 s)

baeprojectoneApplicationTests [Runner: JUnit 5] (0.004 s)

UserControllerUnitTest [Runner: JUnit 5] (0.174 s)

- deleteFailTest() (0.064 s)
- getByIdTest() (0.061 s)
- updateTest() (0.010 s)
- getAllTest() (0.008 s)
- createTest() (0.006 s)
- deleteTest() (0.014 s)

UserControllerIntegrationTest [Runner: JUnit 5] (0.112 s)

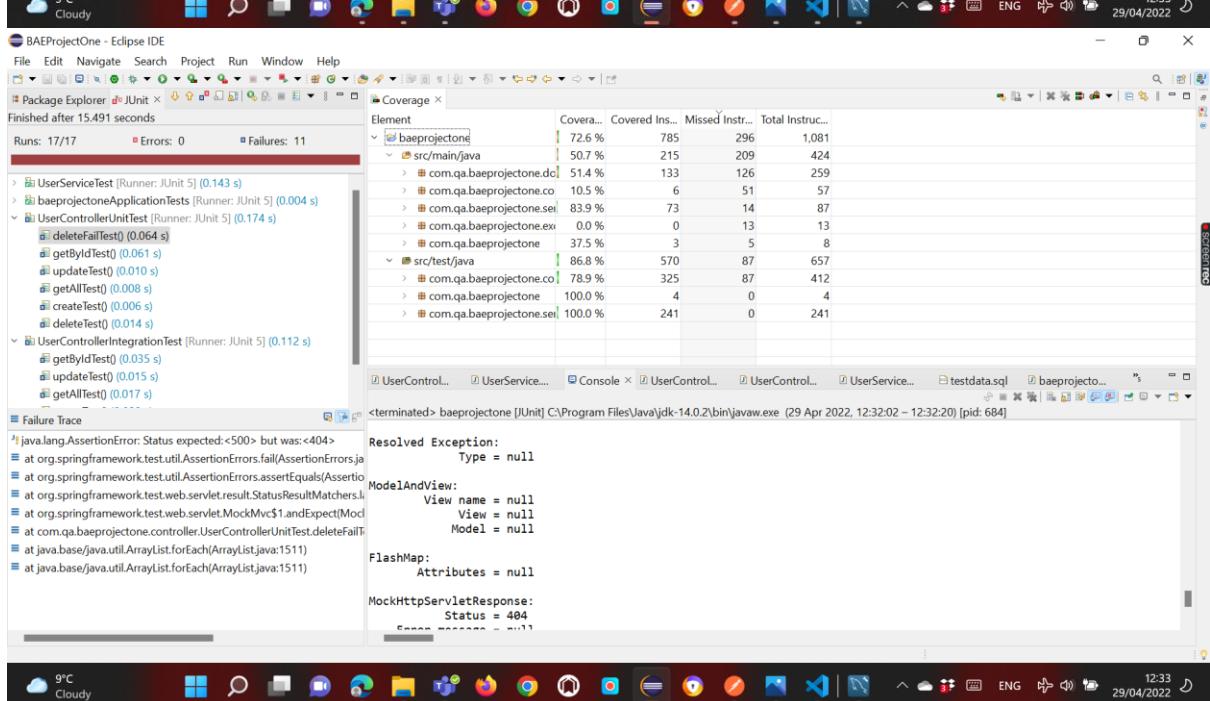
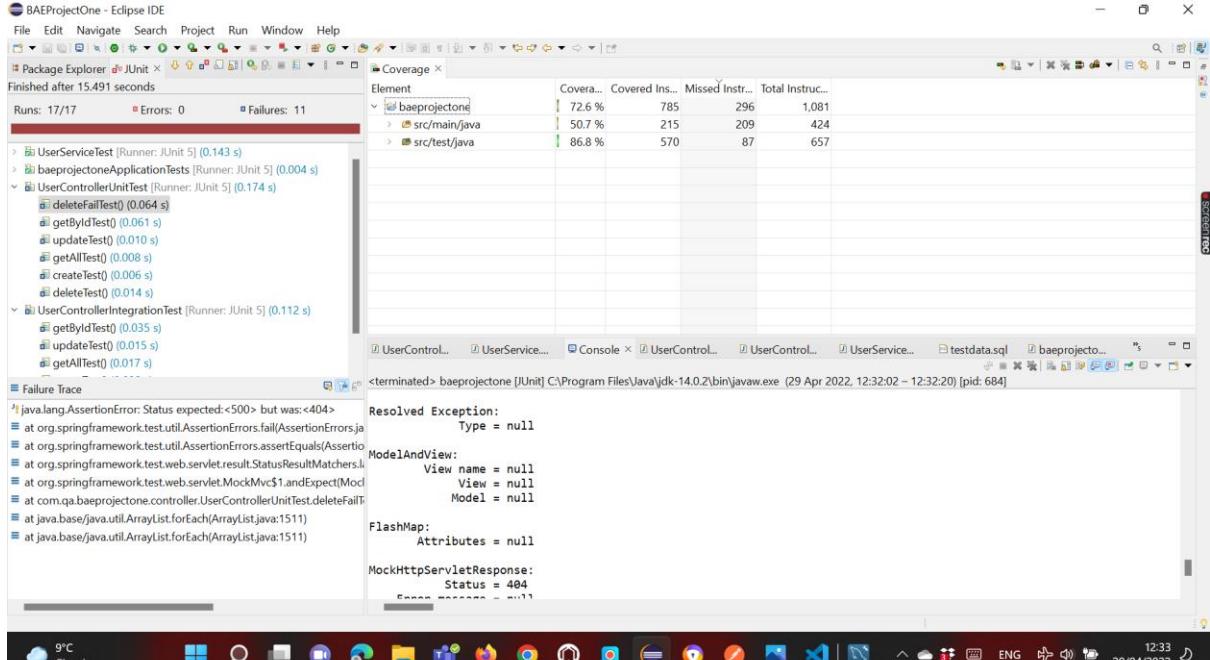
- getByIdTest() (0.035 s)
- updateTest() (0.015 s)
- getAllTest() (0.017 s)

Failure Trace

```
java.lang.AssertionError: Status expected:<500> but was:<404>
at org.springframework.test.util.AssertionErrors.fail(AssertionErrors.java:151)
at org.springframework.test.util.AssertionErrors.assertEquals(AssertionErrors.java:151)
at org.springframework.test.web.servlet.result.StatusResultMatchers$1.matches(StatusResultMatchers.java:151)
at org.springframework.test.web.servlet.MockMvc$1.andExpect(MockMvc.java:151)
at com.qa.baeprojectone.controller.UserServiceIntegrationTest.deleteFail(UserServiceIntegrationTest.java:151)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
```

2022-04-29 12:32:19.921 INFO 684 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory
2022-04-29 12:32:19.923 INFO 684 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated!
2022-04-29 12:32:19.931 INFO 684 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed!
2022-04-29 12:32:19.933 INFO 684 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory
2022-04-29 12:32:19.934 INFO 684 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-2 - Shutdown initiated!
2022-04-29 12:32:19.947 INFO 684 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-2 - Shutdown completed!
2022-04-29 12:32:19.956 INFO 684 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory
2022-04-29 12:32:19.958 INFO 684 --- [ionShutdownHook] .SchemaDropperImpl\$DelayedDropActionImpl : HHH000477: Starting
Hibernate: drop table if exists user CASCADE
2022-04-29 12:32:19.955 INFO 684 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-3 - Shutdown initiated!
2022-04-29 12:32:19.956 INFO 684 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-3 - Shutdown completed!

9°C Cloudy 12:32 29/04/2022



```

MINGW64:/c/Users/annis/OneDrive/Desktop/BAEProjectOne/baeprojectone
annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git add .
annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git commit -m "AT: Created BaeProjectOneApplicationTests.java, corrected mistakes in UserControllerIntegrationTest.java and UserServiceTest.java"
[feature-entity dcc7025] AT: Created BaeProjectOneApplicationTests.java, corrected mistakes in UserControllerIntegrationTest.java and UserServiceTest.java
 3 files changed, 97 insertions(+), 1 deletion(-)
annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 25, done.
Counting objects: 100% (25/25), done.
Delta compression using up to 8 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (13/13), 1.68 KiB | 859.00 KiB/s, done.
Total 13 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/annisatessffaaye/BAEProjectOne.git
  f430052..dcc7025  feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git status
On branch Feature-entity
Your branch is up to date with 'origin/Feature-entity'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
           modified:  createprojectoneob.sql

Merge made by the 'recursive' strategy.
 README.md | 6 ++++++
 1 file changed, 6 insertions(+)
 create mode 100644 README.md

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ git push
Enumerating objects: 58, done.
Counting objects: 100% (41/41), done.
Delta compression using up to 8 threads
Compressing objects: 100% (14/14), done.
Writing objects: 100% (22/22), 1.73 KiB | 589.00 KiB/s, done.
Total 22 (delta 9), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (8/8), completed with 7 local objects.
To https://github.com/annisatessffaaye/BAEProjectOne.git
  7684850..7325218  feature-entity -> feature-entity

annis@LAPTOP-7378R9CE MINGW64 ~/OneDrive/Desktop/BAEProjectOne/baeprojectone (feature-entity)
$ |




The screenshot shows a Windows desktop environment. At the top, there's a taskbar with various icons. Below it is a terminal window with a black background and white text, displaying a command-line session for Git operations. The session includes committing changes, pushing them to a GitHub repository, and then viewing the resulting API documentation in a browser. The browser window has a white background and shows the Swagger UI interface for the 'user-controller' API, which includes sections for 'GET /getAll', 'GET /getById/{id}', 'POST /create', and 'PUT /update/{id}'.


```

The screenshot shows a web browser window displaying the Swagger UI for a RESTful API. The URL in the address bar is `localhost:12000/swagger-ui/index.html#/`. The main content area is titled "user-controller". It lists several API endpoints:

- PUT /update/{id}** (highlighted in orange)
- POST /create** (highlighted in green)
- GET /getById/{id}** (highlighted in blue)
- GET /getAll**
- DELETE /delete/{id}** (highlighted in red)

Below the endpoints, there is a section titled "Schemas" which contains a single entry: "User".

The browser taskbar at the bottom shows various open tabs and system icons.

PUT /update/{id} Details

Parameters

| Name | Description |
|----------------------|----------------------------|
| id * required | integer(\$int64) (path) |

Request body required

application/json

Example Value | Schema

```
{  
    "id": 0,  
    "firstName": "string",  
    "lastName": "string",  
    "username": "string",  
    "phoneNumber": "string",  
    "address": "string"  
}
```

localhost:12000/swagger-ui/index.html#/user-controller/update

Responses

| Code | Description | Links |
|------|-------------|----------|
| 200 | OK | No links |

Media type: */*

Controls Accept header.

Example Value | Schema

```
{  
    "id": 0,  
    "firstName": "string",  
    "lastName": "string",  
    "username": "string",  
    "phoneNumber": "string",  
    "address": "string"  
}
```

POST /create

localhost:12000/swagger-ui/index.html#/user-controller/create

Example Value | Schema

```
{  
    "id": 0,  
    "firstName": "string",  
    "lastName": "string",  
    "username": "string",  
    "phoneNumber": "string",  
    "address": "string"  
}
```

POST /create

Parameters

No parameters

Request body required

application/json

Example Value | Schema

```
{  
    "id": 0,  
    "firstName": "string",  
    "lastName": "string",  
    "username": "string",  
    "phoneNumber": "string",  
    "address": "string"  
}
```

localhost:12000/swagger-ui/index.html#/user-controller/create

Responses

| Code | Description | Links |
|------|-------------|----------|
| 200 | OK | No links |

Media type

/

Controls Accept header.

Example Value | Schema

```
{  
    "_id": 0,  
    "firstName": "string",  
    "lastName": "string",  
    "username": "string",  
    "phoneNumber": "string",  
    "address": "string"  
}
```

GET /getById/{id}

localhost:12000/swagger-ui/index.html#/user-controller/getById

Controls Accept header.

Example Value | Schema

```
{  
    "_id": 0,  
    "firstName": "string",  
    "lastName": "string",  
    "username": "string",  
    "phoneNumber": "string",  
    "address": "string"  
}
```

GET /getById/{id}

Parameters

| Name | Description |
|---------------|----------------------------|
| id * required | integer(\$int64) (path) |

Try it out

Responses

localhost:12000/swagger-ui/index.html#/user-controller/getById

The screenshot displays two API endpoints using the Swagger UI interface:

Endpoint 1: /user-controller/getByld

- Responses**:
 - Code**: 200 **Description**: OK
- Example Value**:

```
{
  "id": 0,
  "firstName": "string",
  "lastName": "string",
  "username": "string",
  "phoneNumber": "string",
  "address": "string"
}
```

Endpoint 2: /user-controller/getAll

- Parameters**: No parameters
- Responses**:
 - Code**: 200 **Description**: OK
- Example Value**:

```
[
  {
    "id": 0,
    "firstName": "string",
    "lastName": "string",
    "username": "string",
    "phoneNumber": "string"
  }
]
```

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost:12000/swagger-ui/index.html#/user-controller/getAll'. The page displays the 'Responses' section for a 200 OK status code. It includes a table with columns 'Code', 'Description', and 'Links'. A dropdown menu under 'Media type' is set to '*/*'. Below it, a note says 'Controls Accept header.' and links to 'Example Value' and 'Schema'. An example value is shown as a JSON array:

```
[  
  {  
    "id": 0,  
    "firstName": "string",  
    "lastName": "string",  
    "username": "string",  
    "phoneNumber": "string",  
    "address": "string"  
  }  
]
```

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost:12000/swagger-ui/index.html#/user-controller/delete'. The page displays the 'Parameters' section for a DELETE request to '/delete/{id}'. It includes a table with columns 'Name' and 'Description'. A parameter 'id * required' is listed with a type of 'integer(\$int64)' and a description '(path)'. A 'Try it out' button is visible. Below the parameters, the 'Responses' section for a 200 OK status code is shown, which is identical to the one in the first screenshot.

The screenshot shows the Swagger UI interface for a REST API. At the top, the URL is `localhost:12000/swagger-ui/index.html#/user-controller/delete`. The main area displays a table for the `DELETE /user/{id}` endpoint. The table has two columns: **Name** and **Description**. The **Name** column contains `id`, which is marked as **required** and has the type `integer($int64)`. The **Description** column contains the placeholder `(path)`. Below this table is a section titled **Responses**, which lists a single response entry for **Code 200 OK**. The **Description** for this response is `OK`. The **Links** column indicates `No links`. Under the **Media type** dropdown, the value `*/*` is selected, with a note below stating "Controls Accept header". The **Example Value** field contains an empty JSON object: `{}`.

The screenshot shows the Postman application interface. The top navigation bar includes icons for weather (9°C Cloudy), taskbar items (Windows, File Explorer, Task View, etc.), and system status (12:47, 29/04/2022). The main workspace is titled "My Workspace" and shows a collection named "Demo Java Project at QA" containing a POST request to "localhost:11000/create". This request is being modified for "localhost:12000/create". The "Body" tab is selected, showing a JSON payload:

```
1 {  
2   "firstName": "Helen211",  
3   "lastName": "Mirren11",  
4   "username": "helenmirren211",  
5   "phoneNumber": "020811",  
6   "address": "sussex11"  
7 }  
8 
```

The "Send" button is highlighted. Below the body, the response status is shown as 201 Created with a timestamp of 10:08 and a size of 294 B. The response body is also displayed in JSON format:

```
1 {  
2   "id": 7,  
3   "firstName": "Helen211",  
4   "lastName": "Mirren11",  
5   "username": "helenmirren211".  
6 }  
7 
```

