

Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/api/EventAPI.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer EventAPI.java

```
1 package com.infy.eventregistration.api;
2
3 import java.util.List;
4
5 @RestController
6 @Validated
7 @RequestMapping(value = "/event-api")
8 public class EventAPI
9 {
10     @Autowired
11     private EventService eventService;
12
13     @Autowired
14     private Environment environment;
15
16     // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
17     @PostMapping(value = "/events")
18     public ResponseEntity<String> registerParticipant(@Valid @RequestBody ParticipantDTO participantDTO) throws EventRegistrationException
19     {
20         // your code goes here
21         Integer participantId = eventService.registerParticipant(participantDTO);
22         return new ResponseEntity<String>(environment.getProperty("API.REGISTRATION_SUCCESS") + participantId, HttpStatus.CREATED);
23     }
24
25     // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
26     @GetMapping(value = "/events/{venue}")
27     public ResponseEntity<List<ParticipantDTO>> getParticipantsByEventVenue(@PathVariable
28         @Pattern(regexp = "[A-Z][0-9]-Hall", message = "{event.venue.invalid}") String venue) throws EventRegistrationException
29     {
30         // your code goes here
31         List<ParticipantDTO> participantDTOList = eventService.getParticipantsByEventVenue(venue);
32         return new ResponseEntity<List<ParticipantDTO>>(participantDTOList, HttpStatus.OK);
33     }
34 }
```

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14:04 12-03-2021

Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/dto/EventDTO.java - Eclipse IDE

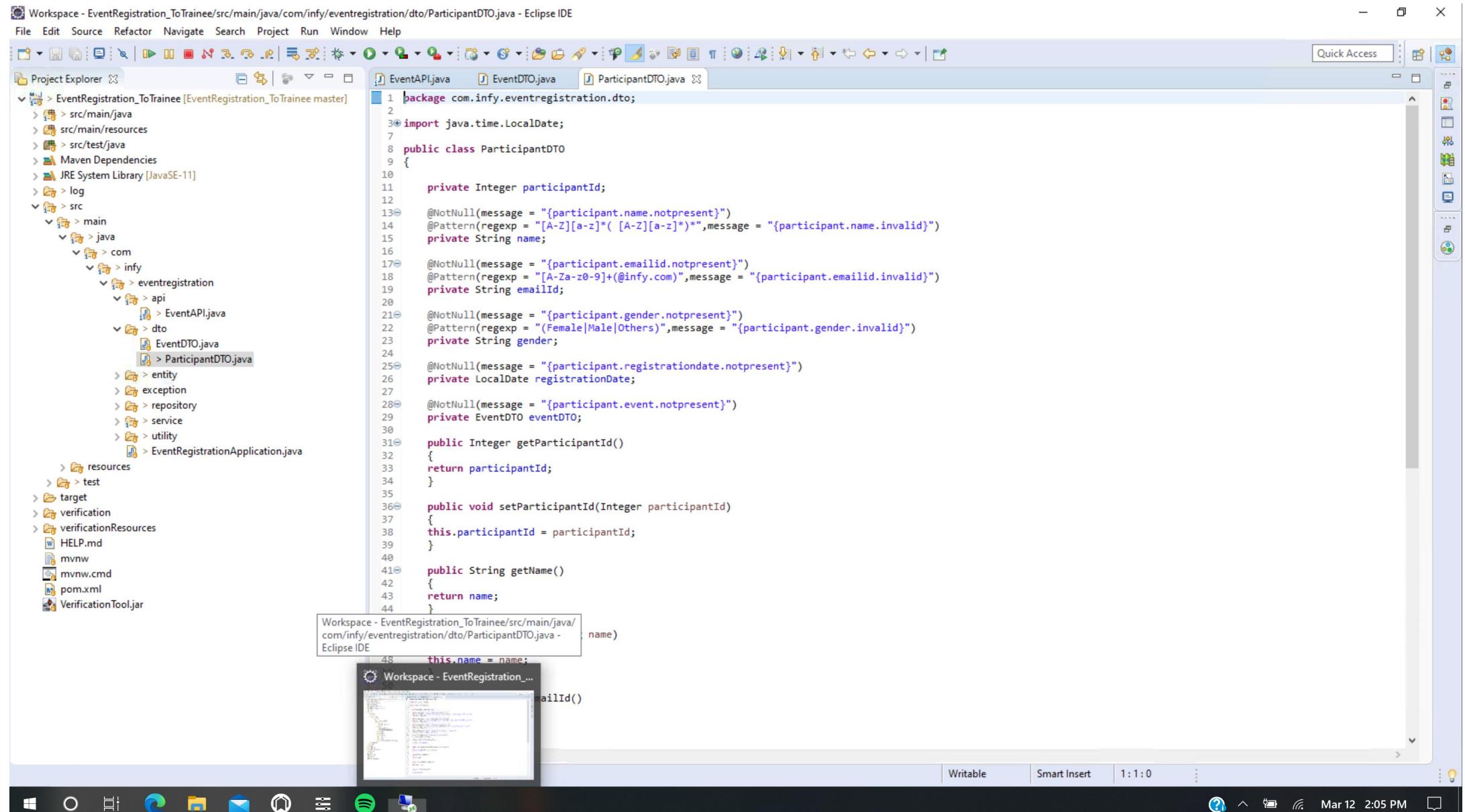
File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer EventAPI.java EventDTO.java

```
1 package com.infy.eventregistration.dto;
2
3 import java.time.LocalDate;
4
5 public class EventDTO
6 {
7     private Integer eventId;
8     private String name;
9     private LocalDate eventDate;
10    private String venue;
11    private Integer maxCount;
12
13    public Integer getEventId()
14    {
15        return eventId;
16    }
17
18    public void setEventId(Integer eventId)
19    {
20        this.eventId = eventId;
21    }
22
23    public String getName()
24    {
25        return name;
26    }
27
28    public void setName(String name)
29    {
30        this.name = name;
31    }
32
33    public LocalDate getEventDate()
34    {
35        return eventDate;
36    }
37
38    public void setEventDate(LocalDate eventDate)
39    {
40        this.eventDate = eventDate;
41    }
42
43    public String getVenue()
44    {
45        return venue;
46    }
47
48    public void setVenue(String venue)
49    {
50        this.venue = venue;
51    }
}
```

File Explorer Writable Smart Insert 1:1:0

Mar 12 2:05 PM



Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/entity/Event.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer EventAPI.java EventDTO.java ParticipantDTO.java Event.java

```
1 package com.infy.eventregistration.entity;
2
3 import java.time.LocalDate;
4
5 @Entity
6 public class Event
7 {
8     @Id
9     private Integer eventId;
10    private String name;
11    private LocalDate eventDate;
12    private String venue;
13    private Integer maxCount;
14
15    public Integer getEventId()
16    {
17        return eventId;
18    }
19
20    public void setEventId(Integer eventId)
21    {
22        this.eventId = eventId;
23    }
24
25    public String getName()
26    {
27        return name;
28    }
29
30    public void setName(String name)
31    {
32        this.name = name;
33    }
34
35    public LocalDate getEventDate()
36    {
37        return eventDate;
38    }
39
40    public void setEventDate(LocalDate eventDate)
41    {
42
43    }
44
45    public String getVenue()
46    {
47        return venue;
48    }
49
50    public void setVenue(String venue)
51    {
52
53    }
54}
```

Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/entity/Event.java - Eclipse IDE

Writable Smart Insert 1:1:0

Windows Taskbar: File Explorer, Mail, Spotify, Eclipse IDE, Task View, Taskbar Icons, System Tray: Mar 12 2:05 PM

Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/entity/Participant.java - Eclipse IDE

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Project Explorer EventAPI.java EventDTO.java ParticipantDTO.java Event.java Participant.java

```
1 package com.infy.eventregistration.entity;
2
3 import java.time.LocalDate;
4
5 @Entity
6 public class Participant
7 {
8     @Id
9     @GeneratedValue(strategy = GenerationType.IDENTITY)
10    private Integer participantId;
11    private String name;
12    private String emailId;
13    private String gender;
14    private LocalDate registrationDate;
15    @ManyToOne(cascade = CascadeType.ALL)
16    @JoinColumn(name = "event_id")
17    private Event event;
18
19    public Integer getParticipantId()
20    {
21        return participantId;
22    }
23
24    public void setParticipantId(Integer participantId)
25    {
26        this.participantId = participantId;
27    }
28
29    public String getName()
30    {
31        return name;
32    }
33
34    public void setName(String name)
35    {
36        this.name = name;
37    }
38
39    public String getEmailId()
40    {
41        return emailId;
42    }
43
44    public void setEmailId(String emailId)
45    {
46        this.emailId = emailId;
47    }
48
49    public String getGender()
50    {
51        return gender;
52    }
53
54    public void setGender(String gender)
55    {
56        this.gender = gender;
57    }
58
59}
```

Quick Access

Google Chrome Writable Smart Insert 1:1:0

Mar 12 2:05 PM

Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/repository/EventRepository.java - Eclipse IDE

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The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure for "EventRegistration_ToTrainee". The "src" folder contains "main" and "test" packages. "main" contains "java" (with "com" package), "resources", "target", "verification", and "verificationResources" (containing "HELP.md", "mvnw", "mvnw.cmd", "pom.xml", and "VerificationTool.jar"). "com" package contains "infy" (with "eventregistration" package), "dto", "entity", "exception", "repository", "service", and "utility" sub-packages. "infy" also contains "EventAPI.java", "EventDTO.java", "ParticipantDTO.java", "Event.java", "Participant.java", "EventRegistrationException.java", "EventRepository.java", "ParticipantRepository.java", and "EventRegistrationApplication.java".
- Code Editor:** Displays the content of "EventRepository.java". The code is as follows:

```
1 package com.infy.eventregistration.repository;
2
3 import org.springframework.data.repository.CrudRepository;
4
5 public interface EventRepository extends CrudRepository<Event, Integer>{
6     // your code goes here
7     Event findByName(String name);
8 }
9
10
11
```

The Eclipse interface includes standard toolbars, a status bar at the bottom, and a taskbar at the very bottom.

Postman

Writable

Smart Insert

1:1:0

Mar 12 2:06 PM

Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/repository/ParticipantRepository.java - Eclipse IDE

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The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer View:** On the left, it displays the project structure for "EventRegistration_ToTrainee". The "src" folder contains the main package "com.infy.eventregistration.repository" which includes the "ParticipantRepository.java" file shown in the editor.
- Editor View:** The central part of the screen shows the Java code for "ParticipantRepository.java". The code defines a public interface "ParticipantRepository" that extends "CrudRepository<Participant, Integer>". It includes methods to find participants by event venue and by event.
- Bottom Taskbar:** At the bottom, there is a taskbar with several icons, including "Postman", "Writable", "Smart Insert", and "1:1:0".
- System Tray:** The Windows taskbar at the bottom right shows the date and time as "Mar 12 2:06 PM".

```
1 package com.infy.eventregistration.repository;
2
3 import java.util.List;
4
5 public interface ParticipantRepository extends CrudRepository<Participant, Integer>{
6     // your code goes here
7     List<Participant> findByEventVenue(String venue);
8     List<Participant> findByEvent(Event event);
9 }
10
11
12
13
14
15
16
```

Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/service/EventServiceImpl.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

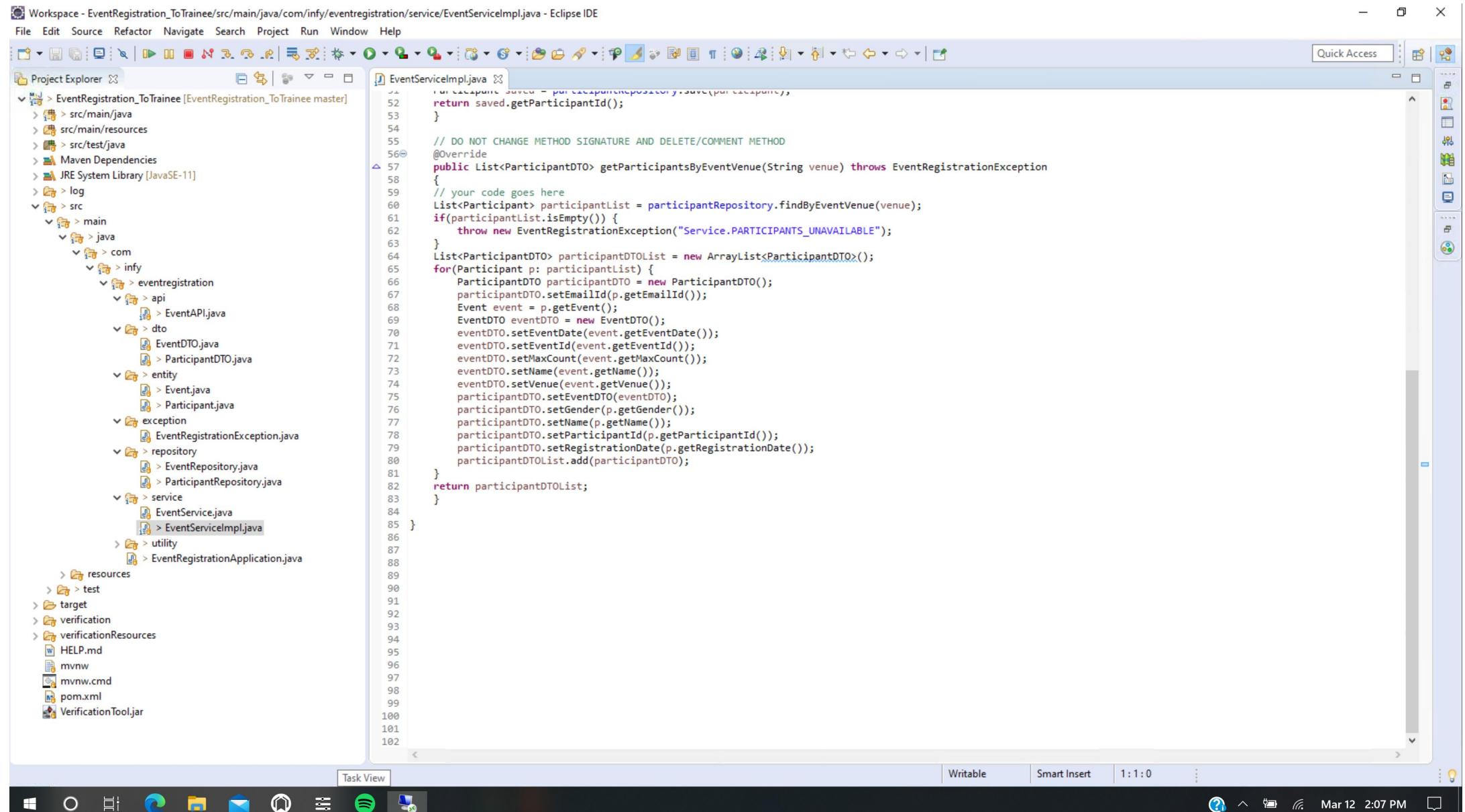
Project Explorer EventServiceImpl.java

```
1 package com.infy.eventregistration.service;
2
3 import java.util.ArrayList;
4
5 @Service(value = "eventService")
6 @Transactional
7 public class EventServiceImpl implements EventService
8 {
9
10     @Autowired
11     private EventRepository eventRepository;
12
13     @Autowired
14     private ParticipantRepository participantRepository;
15
16     // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
17     @Override
18     public Integer registerParticipant(ParticipantDTO participantDTO) throws EventRegistrationException
19     {
20         // your code goes here
21         Event event = eventRepository.findByName(participantDTO.getEventDTO().getName());
22         if(event == null) {
23             throw new EventRegistrationException("Service.EVENT_UNAVAILABLE");
24         }
25         List<Participant> participantList = participantRepository.findByEvent(event);
26         if(participantList.size() >= event.getMaxCount()) {
27             throw new EventRegistrationException("Service.REGISTRATION_CLOSED");
28         }
29         if(participantDTO.getRegistrationDate().isAfter(event.getEventDate().minusDays(3))){
30             throw new EventRegistrationException("Service.REGISTRATION_CLOSED");
31         }
32         Participant participant = new Participant();
33         participant.setEmailId(participantDTO.getEmailId());
34         participant.setEvent(event);
35         participant.setGender(participantDTO.getGender());
36         participant.setName(participantDTO.getName());
37         participant.setRegistrationDate(participantDTO.getRegistrationDate());
38         Participant saved = participantRepository.save(participant);
39         return saved.getParticipantId();
40     }
41
42     // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
43     @Override
44     public List<ParticipantDTO> getParticipantsByEventVenue(String venue) throws EventRegistrationException
45     {
46         // your code goes here
47         List<Participant> participantList = participantRepository.findByEventVenue(venue);
48         if(participantList.isEmpty()) {
49             throw new EventRegistrationException("Service.PARTICIPANTS_UNAVAILABLE");
50         }
51         List<ParticipantDTO> participantDTOList = new ArrayList<ParticipantDTO>();
52         for(Participant participant : participantList)
53         {
54             ParticipantDTO participantDTO = new ParticipantDTO();
55             participantDTO.setName(participant.getName());
56             participantDTO.setEventDTO(participant.getEvent());
57             participantDTO.setGender(participant.getGender());
58             participantDTO.setRegistrationDate(participant.getRegistrationDate());
59             participantDTO.setEmailId(participant.getEmailId());
60             participantDTOList.add(participantDTO);
61         }
62         return participantDTOList;
63     }
64 }
```

Quick Access

Google Chrome Writable Smart Insert 1:1:0

Mar 12 2:07 PM



Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/utility/ExceptionControllerAdvice.java - Eclipse IDE

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Project Explorer EventServiceImpl.java ExceptionControllerAdvice.java

```
1 package com.infy.eventregistration.utility;
2
3 import java.util.stream.Collectors;
4
5 @RestControllerAdvice
6 public class ExceptionControllerAdvice {
7
8
9     private static final Log LOGGER = LoggerFactory.getLog(ExceptionControllerAdvice.class);
10
11     @Autowired
12     private Environment environment;
13
14     // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
15     @ExceptionHandler(EventRegistrationException.class)
16     public ResponseEntity<ErrorInfo> eventRegistrationExceptionHandler(EventRegistrationException exception) {
17
18         LOGGER.error(exception.getMessage(), exception);
19         ErrorInfo errorInfo = new ErrorInfo();
20         errorInfo.setErrorCode(HttpStatus.BAD_REQUEST.value());
21         errorInfo.setErrorMessage(environment.getProperty(exception.getMessage()));
22         return new ResponseEntity<>(errorInfo, HttpStatus.BAD_REQUEST);
23     }
24
25     // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
26     @ExceptionHandler(Exception.class)
27     public ResponseEntity<ErrorInfo> generalExceptionHandler(Exception exception) {
28
29         LOGGER.error(exception.getMessage(), exception);
30         ErrorInfo errorInfo = new ErrorInfo();
31         errorInfo.setErrorCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
32         errorInfo.setErrorMessage(environment.getProperty("General.EXCEPTION_MESSAGE"));
33         return new ResponseEntity<>(errorInfo, HttpStatus.INTERNAL_SERVER_ERROR);
34     }
35
36     // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
37     @ExceptionHandler( {MethodArgumentNotValidException.class,ConstraintViolationException.class})
38     public ResponseEntity<ErrorInfo> validatorExceptionHandler(Exception exception) {
39
40         LOGGER.error(exception.getMessage(), exception);
41         String errorMsg;
42         if (exception instanceof MethodArgumentNotValidException) {
43
44             MethodArgumentNotValidException manvException = (MethodArgumentNotValidException) exception;
45             errorMsg = manvException.getBindingResult()
46                     .getAllErrors()
47                     .stream()
48                     .map(ObjectError::getDefaultMessage)
49                     .collect(Collectors.joining(", "));
50
51         }
52     }
53 }
```

Type here to search

Workspace - EventRegistration_ToTrainee/src/main/java/com/infy/eventregistration/utility/LoggingAspect.java - Eclipse IDE

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Project Explorer EventServiceImpl.java ExceptionControllerAdvice.java LoggingAspect.java

```
1 package com.infy.eventregistration.utility;
2
3 import org.apache.commons.logging.Log;
4
5 @Component
6 @Aspect
7 public class LoggingAspect
8 {
9
10    private static final Log LOGGER = LogFactory.getLog(LoggingAspect.class);
11
12    // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
13    @AfterThrowing(pointcut = "execution(* com.infy.eventregistration.service.*Impl.*(..))", throwing = "exception")
14    public void logServiceException(EventRegistrationException exception)
15    {
16        // your code goes here
17        LOGGER.error(exception.getMessage(), exception);
18    }
19}
20
21
22
23
24
25
26
27
```

Postman Writable Smart Insert 1:1:0

Windows Taskbar: Postman, Writable, Smart Insert, 1:1:0, Mar 12 2:08 PM

exam - EventRegistration_ToTrainee/src/test/java/com/infy/eventregistration/EventRegistrationApplicationTests.java - Eclipse IDE

File Edit Source Refactor Search Project Run Window Help

Project Explorer EventRegistrationApplicationTests.java

```
25@Mock
26 private EventRepository eventRepository;
27@Mock
28 private ParticipantRepository participantRepository;
29@.InjectMocks
30 private EventService eventService = new EventServiceImpl();
31
32 // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
33@Test
34 public void getParticipantsByEventVenueNoParticipantsFoundTest()
{
    // your code goes here
    String name="A6-Hall";
    List<Participant> x=new ArrayList<>();
    Mockito.when(participantRepository.findByEventVenue(Mockito.anyString())).thenReturn(x);
    EventRegistrationException e=Assertions.assertThrows(EventRegistrationException.class, ()->eventService.getParticipantsByEventVenue(name));
    Assertions.assertEquals("Service.PARTICIPANTS_UNAVAILABLE",e.getMessage());
}
35
36 // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
37@Test
38 public void registerParticipantNoEventFoundTest()
{
    // your code goes here
    ParticipantDTO x=new ParticipantDTO();
    x.setName("Dancing");
    Event e=new Event();
39
    Mockito.when(eventRepository.findByName(Mockito.anyString())).thenReturn(null);
    EventRegistrationException e2=Assertions.assertThrows(EventRegistrationException.class, ()->eventService.registerParticipant(x));
    Assertions.assertEquals("Service.EVENT_UNAVAILABLE",e2.getMessage());
}
40
41
42
43
44 // DO NOT CHANGE METHOD SIGNATURE AND DELETE/COMMENT METHOD
45@Test
46 public void registerParticipantNoEventFoundTest()
{
    // your code goes here
    ParticipantDTO x=new ParticipantDTO();
    x.setName("Dancing");
    Event e=new Event();
47
    Mockito.when(eventRepository.findByName(Mockito.anyString())).thenReturn(null);
    EventRegistrationException e2=Assertions.assertThrows(EventRegistrationException.class, ()->eventService.registerParticipant(x));
    Assertions.assertEquals("Service.EVENT_UNAVAILABLE",e2.getMessage());
}
48
49
50
51
52
53
54
55
56
57
58
59
60
```

Console Unit

EventRegistrationApplication [Java Application] C:\Program Files\Zulu\zulu-11\bin\javaw.exe (12-Mar-2021, 1:44:34 pm)

=====: Spring Boot :: (v2.3.1.RELEASE)

Starting EventRegistrationApplication on MYSJAN21JA-161 with PID 8288 (C:\Users\siba.panda\Desktop\o66362ag\EventRegistration_ToTrainee\target\classes started by siba.panda in C:\) No active profile set, falling back to default profiles: default Started EventRegistrationApplication in 2.791 seconds (JVM running for 2176.364)

Writable Smart Insert 1:1:0

14:22 ENG 12-03-2021