







```
Project Explorer 🗯

☑ ParticipantDTO.java 
☒
                                    package com.infy.eventregistration.dto;
                                  3. import java.time.LocalDate;
iap_eventregistration [user_repo
Src/main/java
                                    public class ParticipantDTO {
                                11
 ▶ a com.infy.eventregistration
                                12
                                        private Integer participantId;
  acom.infy.eventregistration.a
                                        @NotNull(message="{participant.name.notpresent}")
                                13-
                                14
                                        @Pattern(regexp="[A-Z][a-z]*", message="{participant.name.invalid}")
  a com.infy.eventregistration.c
                                15
                                        private String name:
    ▶ In EventDTO.java
                                16
                                        private String emailId;
   ParticipantDTO.java
                                17
                                        private String gender;
                                18
                                        private LocalDate registrationDate;
  a com.infy.eventregistration.
                                        @NotNull(message="{participant.event.notpresent}")
                                19-
 Com.infy.eventregistration.i
                                20
                                        private EventDTO eventDTO:
                                21
  com.infy.eventregistration.r
                                22-
                                        public Integer getParticipantId() {
  com.infy.eventregistration.:
                                23
                                             return participantId;

    acom.infy.eventregistration.i

                                24
                                25-
                                        public void setParticipantId(Integer participantId) {
 ▶ ∰ com.infy.eventregistration.v
                                             this.participantId = participantId;
                                26
src/main/resources
                                27
                                        public String getName() {
                                28-
src/test/java
                                29
                                             return name:
Maven Dependencies
                                30
                                        public void setName(String name) {
IRE System Library [JavaSE-11]
                                310
                                            this.name = name:
                                32
log
```

```
D EventValidator.java

    □ EventRepository.java

8
                                                   ParticipantRepository.jav
                                                                             application properties

☑ EventAPI.java 

□

         backage com.infy.eventregistration.api;
       ⇒ import java.util.List;
      22 @RestController
      23 @Validated
      24 @RequestMapping("api")
         public class EventAPI {
      26
      270
              @Autowired
      28
              private EventService eventService;
      29
      30-
              @GetMapping("events/{venue}")
             public ResponseEntity<List<ParticipantDTO>> getParticipantsByEventVenue(
      31
      32
                      @Pattern(regexp="[A-Z][0-9]-Hall", message="{event.venue.invalid}") @PathVariable String venue}
      33
                      throws EventRegistrationException {
      34
                  List<ParticipantDTO> pList= eventService.getParticipantsByEventVenue(venue);
      35
      36
                  return new ResponseEntity<>(pList, HttpStatus. OK);
      37
      38
      39-
              @PostMapping("events")
      40
             public ResponseEntity<ParticipantDTO> registerParticipant(@Valid @RequestBody ParticipantDTO participantDTO)
      41
                      throws EventRegistrationException {
      42
      43
                  participantDTO = eventService.registerParticipant(participantDTO);
      44
                  return new ResponseEntity (participantDTO, HttpStatus. CREATED);
      45
      46 }
      47
```

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☑ EventValidator.java 
☑ EventRepository.java
                                             ParticipantRepository.jav
                                                                       application.properties
                                                                                                I EventAPI.iava
                                                                                                                   0
    public class EventValidator {
        private EventValidator() {
10
11
12
        public static void validateParticipant(ParticipantDTO participantDTO) throws EventRegistrationException {
139
 14
15
            if(!isValidGender(participantDTO.getGender())) {
16
                throw new EventRegistrationException("EventValidator.INVALID_GENDER");
17
18
            if(!isValidRegistrationDate(participantDTO.getRegistrationDate())) {
                throw new EventRegistrationException("EventValidator.INVALID_REGISTRATION_DATE");
19
20
21
22
        }
23
        public static Boolean isValidGender(String gender) {
24-
25
26
            if(gender.equals("Male")||gender.equals("Female")||gender.equals("Others"))
27
            {return true;}
28
            else {
29
30
            return false;}
        }
31
32
33-
        public static Boolean isValidRegistrationDate(LocalDate registrationDate) {
34
35
36
            if(registrationDate.isBefore(LocalDate.now()))
37
            {return false:}
38
            else {
39
            return true;}
40
41
```

```
☐ ExceptionControllerAdvice.java 
☐ EventServiceImpl.java

  package com.inty.eventregistration.utility;
  3 import java.util.stream.Collectors:□
 20 @RestControllerAdvice
    public class ExceptionControllerAdvice {
 22
        private static final Log LOGGER = LogFactory.getLog(ExceptionControllerAdvice.class);
 23
 24
 25-
        @Autowired
 26
        private Environment environment;
 27
        @ExceptionHandler(EventRegistrationException.class)
 28-
        public ResponseEntity<ErrorInfo> eventRegistrationExceptionHandler(EventRegistrationException exception) (
 29
             LOGGER.error(exception.getMessage(), exception);
 30
             ErrorInfo errorInfo = new ErrorInfo():
 31
             errorInfo.setErrorCode(HttpStatus.BAD_REQUEST.value());
 32
             errorInfo.setErrorMessage(environment.getProperty(exception.getMessage()));
 33
             return new ResponseEntity (errorInfo, HttpStatus. BAD REQUEST);
 34
 35
 36
        @ExceptionHandler(Exception.class)
 37-
        public ResponseEntity<ErrorInfo> generalExceptionHandler(Exception exception) {
 38
             LOGGER.error(exception.getMessage(), exception);
 39
             ErrorInfo errorInfo = new ErrorInfo():
 40
             errorInfo.setErrorCode(HttpStatus.INTERNAL_SERVER_ERROR.value());
             errorInfo.setErrorMessage(environment.getProperty(*General.EXCEPTION_MESSAGE*));
 41
 42
             return new ResponseEntity<>(errorInfo, HttpStatus.INTERNAL_SERVER_ERROR);
 43
 44
        @ExceptionHandler({MethodArgumentNotValidException.class,ConstraintViolationException.class})
 45
        public ResponseEntity<ErrorInfo> validatorExceptionHandler(Exception exception) {
 46-
 47
```

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ExceptionControllerAdvice.java

→ *EventServiceImpl.iava 

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           return partitudintitation of committee the thank . ...
37
               ParticipantDTO participantDTO = ParticipantDTO.prepareDTO(participant):
38
               EventDTO eventDTO = EventDTO.prepareDTO(participant.getEvent());
 39
               participantDTO.setEventDTO(eventDTO):
 40
               return participantDTO;
       }).sorted((participant1,participant2) ->
 41
       participant2.getRegistrationDate().compareTo(participant1.getRegistrationDate())).collect(Collectors.toList())
 42
43
 44
 45-
       @Override
       public ParticipantDTO registerParticipant(ParticipantDTO participantDTO) throws EventRegistrationException {
446
           EventValidator.validateParticipant(participantDTO);
 47
           Event event = eventRepository.findByName(participantDTO.getEventDTO().getName());
 48
 49
           if(event==null) {
 50
                throw new EventRegistrationException("EventService.EVENT_UNAVAILABLE");
 51
 52
           List<Participant> participantList = participantRepository.findByEvent(event);
           if(participantList.size() >= event.getMaxCount()) {
 53
                throw new EventRegistrationException("EventService.REGISTRATION CLOSED");
 54
 55
            if(participantDTO.getRegistrationDate().until(event.getEventDate(),ChronoUnit.DAYS) < 2) {
 56
 57
                throw new EventRegistrationException("EventService.REGISTRATION CLOSED");
 58
 59
 60
            Participant participantToSave = ParticipantDTO.prepareEntity(participantDTO);
 61
 52
            participantToSave.setEvent(event):
 63
            participantRepository.save(participantToSave);
 64
            participantDTO.setParticipantId(participantToSave.getParticipantId());
            EventDTO eventDTO = EventDTO.prepareDTO(event);
 65
            participantDTO.setEventDTO(eventDTO);
 66
 67
            return participantDTO;
 68
 69
```

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D ExceptionControllerAdvice.java

    *EventServiceImpl.java 
    □

B
       1 ackage com.infy.eventregistration.service;
      mport java.time.temporal.ChronoUnit;
     19 Service("eventService")
     20 Transactional
     21
     22 ublic class EventServiceImpl implements EventService (
     23
     24-
            (Autowared
            private EventRepository eventRepository;
     25
     26
     27-
            @Autowired
            private ParticipantRepository participantRepository;
     28
     29 .
     309
            @Override
            public List<ParticipantDTO> getParticipantsByEventVenue(String venue) throws EventRegistrationException (
    △31
               List<Participant> participantList =participantRepository.getParticipantsByEventVenue(venue);
     32
     33
                if(participantList.isEmpty()) {
                    throw new EventRegistrationException("EventService.PARTICIPANTS UNAVAILABLE");
     34
     35
     35
               return participantList.stream().map(participant ->{
     37
                    ParticipantDTO participantDTO = ParticipantDTO.prepareDTO(participant):
     38
                   EventDTO eventDTO = EventDTO.prepareDTO(participant.getEvent()):
     39
                   participantDTO.setEventDTO(eventDTO);
     40
                   return participantDTO:
     41
            )).sorted((participant1, participant2) ->
           participant2.getRegistrationDate().compareTo(participant1.getRegistrationDate())).collect(Collectors.toList());
     42
     43
     44
     45-
            GOverride
           public ParticipantDTO registerParticipant(ParticipantDTO participantDTO) throws EventRegistrationException {
    0.46
               EventValidator.validateParticipant(participantDTO);
     47
               Event event = eventRepository.findByName(participantDTO.getEventDTO().getName());
     48
               if(event==null) {
     49
     50
                   throw new EventRegistrationException("EventService.EVENT_UNAVAILABLE");
```

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Module	Success	Failed	Total
ServiceTest	9	0	9
DTOTest	2	0	2
EntityTest	7	0	7
APITest	2	0	2
${\sf Exception Controller Advice Test}$	9	0	9
BeanValidationTest	4	0	4
ValidatorTest	18	0	18
Total	51	0	51

Close