```
Annotations support

    @RestController(@Controller+@ResponseBody)

2. @RequestBody
@RequestParam
4. @PathVariable
@RequestMapping
6. @GetMapping
7. @PostMapping
8. @PutMapping
9. @PatchMapping
10.@DeleteMapping
11.@RestControllerAdvice
12.@ExceptionHandler
13.@Service
14.@Component
15.@Repository
16.@Transactional
Usage of DEV-tools
=> It informs SpringBoot container to automatically reload the applications when
changes are made in the project.
<dependency>
     <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-devtools</artifactId>
</dependency>
Code of Reading the record
_____
public class TouristNotFoundException extends RuntimeException {
     private static final long serialVersionUID = 1L;
     public TouristNotFoundException(String message) {
           super(message);
     }
}
Servicelayer
=========
Optional<Tourist> optional = repo.findById(id);
if (optional.isPresent()) {
     return optional.get();
} else {
     throw new TouristNotFoundException(" tourist with id "+id+" not found");
}
                       or
return repo.findById(id)
           .orElseThrow(() -> new TouristNotFoundException("tourist with id :: " +
id + " not found"));
```

refer:: SpringRest-06-TicketManagementApp

```
Exceptions/HttpErrors which is gives default whitelable error pages.
ErrorController(I)
AbstractController(C)
BasicErrorController(C)
    |=> errorHtml(,,,) :: ModelAndView
    |=> error() :: ResponseEntity<T>
SpringBootMVC
========
@RequestMapping(produces = MediaType.TEXT_HTML_VALUE)
public ModelAndView errorHtml(HttpServletRequest request, HttpServletResponse
response) {
     HttpStatus status = getStatus(request);
     Map<String, Object> model =
Collections.unmodifiableMap(getErrorAttributes(request,
getErrorAttributeOptions(request, MediaType.TEXT_HTML)));
     response.setStatus(status.value());
     ModelAndView modelAndView = resolveErrorView(request, response, status,
     return (modelAndView != null) ? modelAndView : new ModelAndView("error",
model);
SpringBootRest
@RequestMapping
public ResponseEntity<Map<String, Object>> error(HttpServletRequest request) {
     HttpStatus status = getStatus(request);
     if (status == HttpStatus.NO_CONTENT) {
           return new ResponseEntity<>(status);
     Map<String, Object> body = getErrorAttributes(request,
getErrorAttributeOptions(request, MediaType.ALL));
     return new ResponseEntity<>(body, status);
}
Note::
@RestControllerAdvice =>@ControllerAdvice+@ReponseBody+@Component
GlobalExceptionHandler in SpringRest
______
@RestControllerAdvice
public class TouristErrorControllerAdvice {
     @ExceptionHandler(TouristNotFoundException.class)
     public ResponseEntity<ErrorDetails>
handleTouristNotFound(TouristNotFoundException tf) {
     System.out.println("TouristErrorControllerAdvice.handleTouristNotFound()");
           ErrorDetails details = new ErrorDetails(LocalDateTime.now(),
tf.getMessage(), "404-NotFound");
           return new ResponseEntity<ErrorDetails>(details, HttpStatus.NOT_FOUND);
     }
```

```
@ExceptionHandler(Exception.class)
   public ResponseEntity<ErrorDetails> handleAllProblems(Exception e) {
        System.out.println("TouristErrorControllerAdvice.handleAllProblems()");
        ErrorDetails details = new ErrorDetails(LocalDateTime.now(),
        e.getMessage(), "Problem in exeuction");
            return new ResponseEntity<ErrorDetails>(details,
HttpStatus.INTERNAL_SERVER_ERROR);
    }
}
```

refer:: SpringRest-07-TicketManagementAppErrorResponseApp