```
* @param numberOfYearsOfExperience the numberOfYearsOfExperience to set
    public void setNumberOfYearsOfExperience(int numberOfYearsOfExperience) {
        this.numberOfYearsOfExperience = numberOfYearsOfExperience;
    * @return the proficiencyLevel
    public String getProficiencyLevel() {
        return proficiencyLevel;
    }
    * @param proficiencyLevel the proficiencyLevel to set
    public void setProficiencyLevel(String proficiencyLevel) {
        this.proficiencyLevel = proficiencyLevel;
    private String trackName;
    private String skillName;
    private String proficiencyLevel;
}
EmployeeManagementSystemApplication.java
package com.employeemanagement.config;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.ComponentScan;
@SpringBootApplication
@ComponentScan({"com.employeemanagement.config,com.employeemanagement.controller,com.employeemanagement.model,com.
employeemanagement.service.com.employeemanagement.exception"}) public class EmployeeManagementSystemApplication {
    public static void main(String[] args) {
        SpringApplication.run(EmployeeManagementSystemApplication.class, args);
}
EmployeeManagementController.java
/**
*
package com.employeemanagement.controller;
import java.util.Hashtable;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.MediaType;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import com.employeemanagement.exception.EmployeeManagementException;
import com.employeemanagement.model.Skills;
import com.employeemanagement.service.EmployeeManagementService;
@RestController
@RequestMapping("/employees")
public class EmployeeManagementController {
    @Autowired
    EmployeeManagementService employeeManagementService;
     * @param employeeName
    * @return List
     * @throws EmployeeManagementException
    @GetMapping(value = "/skills/{employeeName}")
    public List<Skills> getListOfSkillsetOfAnEmployee(@PathVariable("employeeName") String employeeName)
            throws EmployeeManagementException {
        return employeeManagementService.getListOfSkillSetOfEmployee(employeeName);
    }
    /**
    * @return Hashtable
   @RequestMapping(value = "/allSkills", produces = MediaType.APPLICATION_JSON_VALUE)
    public Hashtable<String, Skills> getListOfAllSkills() {
        return employeeManagementService.getListOfAllSkills();
}
EmployeeManagementService.java
/**
package com.employeemanagement.service;
import java.util.ArrayList;
import java.util.Hashtable;
import java.util.List;
import org.springframework.stereotype.Service;
import com.employeemanagement.exception.EmployeeManagementException;
import com.employeemanagement.model.Employee;
import com.employeemanagement.model.Skills;
@Service
public class EmployeeManagementService {
    Employee employee=new Employee();
    Skills skillA=new Skills();
   Skills skillB=new Skills();
    List<Skills> employeeskillset=new ArrayList<Skills>();
   Hashtable<String,Skills> skillsets=new Hashtable<String,Skills>();
    public EmployeeManagementService()
     skillA.setTrackName("Java");
     skillA.setSkillName("Spring Core");
     skillA.setProficiencyLevel("PL2");
     skillB.setTrackName("DotNet");
     skillB.setSkillName("ASP .NET MVC");
     skillB.setProficiencyLevel("PL1");
     employeeskillset.add(skillA);
    // employeeskillset.add(skillB);
     employee.setEmployeeId(101);
     employee.setEmployeeName("XXX");
     employee.setNumberOfYearsOfExperience(8);
     employee.setSkillSets(employeeskillset);
   }
     * @param employeeName
    * @return List
    * @throws EmployeeManagementException
    public List<Skills> getListOfSkillSetOfEmployee(String employeeName) throws EmployeeManagementException {
        if(employeeName.equalsIgnoreCase(employee.getEmployeeName()))
        {
            employeeskillset=employee.getSkillSets();
        }
        else
            throw new EmployeeManagementException("Invalid Id");
        return employeeskillset;
   }
    /**
    * @return Hashtable
    public Hashtable<String,Skills> getListOfAllSkills()
        skillsets.put("1",skillA);
        skillsets.put("2",skillB);
        return skillsets;
   }
}
EmployeeManagementException.java
/**
*
 */
package com.employeemanagement.exception;
import org.springframework.stereotype.Component;
@Component
public class EmployeeManagementException extends Exception{
    private static final long serialVersionUID=1L;
    private String code;
    public EmployeeManagementException(String message) {
        super();
        this.message=message;
        // TODO Auto-generated constructor stub
   }
    public EmployeeManagementException() {
        super();
   }
    /**
     * @return the code
    public String getCode() {
        return code;
    * @param code the code to set
    */
    public void setCode(String code) {
        this.code = code;
    }
    * @return the message
    public String getMessage() {
        return message;
    /**
     * @param message the message to set
    public void setMessage(String message) {
        this.message = message;
    private String message;
}
ExceptionResponse.java
/**
package com.employeemanagement.exception;
import org.springframework.stereotype.Component;
@Component
public class ExceptionResponse {
    private String message;
    public ExceptionResponse(String message, String details) {
        // TODO Auto-generated constructor stub
        this.message=message;
        this.description=details;
   }
    public ExceptionResponse() {
        // TODO Auto-generated constructor stub
        super();
   }
    /**
     * @return the message
    */
    public String getMessage() {
        return message;
    }
    /**
    * @param message the message to set
    public void setMessage(String message) {
        this.message = message;
    /**
    * @return the description
    public String getDescription() {
        return description;
    }
    /**
    * @param description the description to set
    public void setDescription(String description) {
        this.description = description;
    private String description;
```

```
ErrorHandlingController.java
/**
 */
package com.employeemanagement.exception;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.ControllerAdvice;
import org.springframework.web.bind.annotation.ExceptionHandler;
import org.springframework.web.servlet.mvc.method.annotation.ResponseEntityExceptionHandler;
@ControllerAdvice
public class ErrorHandlingController extends ResponseEntityExceptionHandler {
     * @param e
     * @return ResponseEntity
    @ExceptionHandler(EmployeeManagementException.class)
    public final ResponseEntity<ExceptionResponse> somethingWentWrong(Exception e)
        ExceptionResponse errorMessage=new ExceptionResponse(e.getMessage(), "Please Enter a valid Employee Name");
        return new ResponseEntity<ExceptionResponse>(errorMessage, new HttpHeaders(), HttpStatus.INTERNAL_SERVER_ERROR);
   }
}
```

}