File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\Backend\Backend\Backend\gamma\

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\configened; package com.physio.backend.config;

```
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.web.SecurityFilterChain;
@Configuration
@EnableWebSecurity
public class SecurityConfig {
    public SecurityFilterChain filterChain(HttpSecurity http) throws Exception {
                .csrf(csrf -> csrf.disable())
                .authorizeHttpReguests(auth -> auth
                        .requestMatchers(
                                "/api/auth/**",
                                "/api/users/**",
                                "/api/services/**",
                                "/api/blogs/**",
                                "/api/appointments/**",
                                "/api/patient-journey/**",
                                "/api/activityLogs/**",
                                "/api/securityLogs/**",
                                "/api/passwordChangeRequests/**",
                                "/api/patients/**"
                        ).permitAll()
                        .anyRequest().authenticated()
                .httpBasic(); // Optional
        return http.build();
    }
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\controler; package com.physio.backend.controller;

```
import com.physio.backend.model.ActivityLog;
import com.physio.backend.service.ActivityLogService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.util.List;

@RestController
@RequestMapping("/api/activityLogs")
@CrossOrigin(origins = "*")
public class ActivityLogController {

    @Autowired
    private ActivityLogService service;

    @GetMapping
```

```
public List<ActivityLog> getAll() {
    return service.getAll();
}

@PostMapping
public ActivityLog create(@RequestBody ActivityLog log) {
    log.setTimestamp(java.time.LocalDateTime.now());
    return service.create(log);
}

@DeleteMapping("/{id}")
public void delete(@PathVariable Long id) {
    service.delete(id);
}
```

}

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\control

```
package com.physio.backend.controller;
import com.physio.backend.model.Appointment;
import com.physio.backend.service.AppointmentService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.util.List;
@RestController
@RequestMapping("/api/appointments")
@CrossOrigin(origins = "*")
public class AppointmentController {
    @Autowired
    private AppointmentService service;
    @GetMapping
    public List<Appointment> getAll() {
        return service.getAll();
    @GetMapping("/role/{role}")
    public List<Appointment> getByRole(@PathVariable String role) {
        return service.getByRole(role.toLowerCase());
    @PostMapping
    public Appointment create(@RequestBody Appointment appointment) {
        return service.create(appointment);
    @PutMapping("/{id}")
    public Appointment update(@PathVariable Long id, @RequestBody Appointment appointment) {
        return service.update(id, appointment);
    @DeleteMapping("/\{id\}")
    public void delete(@PathVariable Long id) {
        service.delete(id);
    @GetMapping("/role/{role}/completed")
    public List<Appointment> getCompletedAppointments(@PathVariable String role) {
       return service.getCompletedByRole(role.toLowerCase());
    }
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\controler;

```
import com.physio.backend.model.User;
import com.physio.backend.service.UserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
```

```
import java.util.Map;
@RestController
@RequestMapping("/api/auth")
@CrossOrigin(origins = "*") // Allow frontend access
public class AuthController {
    @Autowired
    private UserService userService;
    @PostMapping("/login")
    public Object login(@RequestBody Map<String, String> credentials) {
        String email = credentials.get("email");
        String password = credentials.get("password");
       return userService.authenticate(email, password)
                .map(user -> Map.of(
                        "id", user.getId(),
                        "name", user.getName(),
                        "email", user.getEmail(),
                        "role", user.getRole()
                ))
                .orElseGet(() -> Map.of("error", "Invalid credentials"));
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\controler; package com.physio.backend.controller;

```
import com.physio.backend.model.Blog;
import com.physio.backend.service.BlogService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.util.List;
@RestController
@RequestMapping("/api/blogs")
@CrossOrigin(origins = "*")
public class BlogController {
    @Autowired
   private BlogService blogService;
    @GetMapping
   public List<Blog> getAll() {
        return blogService.getAll();
    @PostMapping
   public Blog create(@RequestBody Blog blog) {
       return blogService.create(blog);
    }
    @PutMapping("/{id}")
    public Blog update(@PathVariable Long id, @RequestBody Blog blog) {
        return blogService.update(id, blog);
    @DeleteMapping("/{id}")
   public void delete(@PathVariable Long id) {
       blogService.delete(id);
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\control

```
package com.physio.backend.controller;
import java.time.LocalDateTime;
import java.util.List;
import java.util.Map;
```

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PatchMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import com.physio.backend.model.PasswordChangeRequest;
import com.physio.backend.service.PasswordChangeRequestService;
@RestController
@RequestMapping("/api/passwordChangeRequests")
@CrossOrigin("*")
public class PasswordChangeRequestController {
    @Autowired
    private PasswordChangeRequestService service;
    @GetMapping
    public List<PasswordChangeRequest> getAll() {
       return service.getAll();
    @PostMapping
    public PasswordChangeRequest create(@RequestBody PasswordChangeRequest req) {
        req.setStatus("Pending");
        req.setRequestedAt(LocalDateTime.now());
        return service.save(req);
    @PatchMapping("/{id}")
    public PasswordChangeRequest update(@PathVariable Long id, @RequestBody Map<String, String> body) {
        return service.updateStatus(id, body.get("status"));
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\controler; package com.physio.backend.controller;

```
import com.physio.backend.model.Patient;
import com.physio.backend.service.PatientService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;
import java.util.List;
import java.util.Map;
@RestController
@RequestMapping("/api/patients")
@CrossOrigin(origins = "*")
public class PatientController {
    @Autowired
    private PatientService service;
    @GetMapping("/withReports")
    public List<Patient> getWithReports() {
       return service.getAllWithReports();
    @PostMapping
    public Patient create(@RequestBody Patient p) {
        return service.create(p);
    @GetMapping
    public List<Patient> getAll() {
        return service.getAll();
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\controler;

```
import com.physio.backend.dto.PatientJourneyDTO;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;
import java.util.HashMap;
import java.util.Map;
@RestController
@RequestMapping("/api/patient-journey")
@CrossOrigin(origins = "*")
public class PatientJourneyController {
    @GetMapping("/{mrn}")
    public ResponseEntity<?> getPatientJourney(@PathVariable String mrn) {
        // Mock DB logic ? Replace this with real DB queries later
        if (!mrn.equalsIgnoreCase("MRN123456")) {
            return ResponseEntity.notFound().build();
        PatientJourneyDTO dto = new PatientJourneyDTO();
        dto.setMrn("MRN123456");
        dto.setName("John Doe");
        Map<String, Boolean> statusMap = new HashMap<>();
        statusMap.put("registration", true);
        statusMap.put("consultation", true);
        statusMap.put("labReport", true);
        statusMap.put("prescription", false);
        dto.setStatus(statusMap);
        dto.setLabReportUrl("/pdfs/MRN123456_labreport.pdf");
        dto.setPrescriptionUrl("/prescriptions/MRN123456_prescription.pdf");
        return ResponseEntity.ok(dto);
}
```

}

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\controler;

```
import com.physio.backend.model.SecurityLog;
import com.physio.backend.service.SecurityLogService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.time.LocalDateTime;
import java.util.List;

@RestController
@RequestMapping("/api/securityLogs")
@CrossOrigin(origins = "*")
public class SecurityLogController {
```

```
@Autowired
private SecurityLogService service;

@GetMapping
public List<SecurityLog> getAll() {
    return service.getAll();
}

@PostMapping
public SecurityLog create(@RequestBody SecurityLog log) {
    log.setTimestamp(LocalDateTime.now());
    return service.save(log);
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\controller;

```
import com.physio.backend.model.Service;
import com.physio.backend.service.ServiceService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.util.List;
@RestController
@RequestMapping("/api/services")
@CrossOrigin(origins = "*")
public class ServiceController {
    @Autowired
    private ServiceService serviceService;
    @GetMapping
    public List<Service> getAll() {
       return serviceService.getAll();
    @PostMapping
    public Service addService(@RequestBody Service service) {
        return serviceService.save(service);
    @PutMapping("/{id}")
    public Service updateService(@PathVariable Long id, @RequestBody Service service) {
        return serviceService.update(id, service);
    @DeleteMapping("/{id}")
    public void deleteService(@PathVariable Long id) {
        serviceService.delete(id);
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\controler; package com.physio.backend.controller;

```
import com.physio.backend.model.User;
import com.physio.backend.service.UserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.util.*;

@RestController
@RequestMapping("/api/users")
@CrossOrigin(origins = "*") // Allow frontend access
public class UserController {

    @Autowired
    private UserService userService;

    @GetMapping
```

```
public List<User> getAllUsers() {
    return userService.getAll();
}

@PostMapping
public User createUser(@RequestBody User user) {
    return userService.create(user);
}

@PutMapping("/{id}")
public User updateUser(@PathVariable Long id, @RequestBody User updatedUser) {
    return userService.update(id, updatedUser);
}

@DeleteMapping("/{id}")
public void deleteUser(@PathVariable Long id) {
    userService.delete(id);
}

@PatchMapping("/{id}")
public User patchUser(@PathVariable Long id, @RequestBody Map<String, Object> updates) {
    return userService.patch(id, updates);
}
```

}

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\dto\Paralle package com.physio.backend.dto;

```
import java.util.Map;
public class PatientJourneyDTO {
   private String mrn;
   private String name;
   private Map<String, Boolean> status; // e.g., registration, consultation, labReport, prescription
   private String labReportUrl;
   private String prescriptionUrl;
    // Getters and Setters
   public String getMrn() {
       return mrn;
    public void setMrn(String mrn) {
        this.mrn = mrn;
    public String getName() {
       return name;
    public void setName(String name) {
       this.name = name;
    public Map<String, Boolean> getStatus() {
       return status;
    public void setStatus(Map<String, Boolean> status) {
        this.status = status;
    public String getLabReportUrl() {
       return labReportUrl;
    public void setLabReportUrl(String labReportUrl) {
       this.labReportUrl = labReportUrl;
    public String getPrescriptionUrl() {
       return prescriptionUrl;
   public void setPrescriptionUrl(String prescriptionUrl) {
        this.prescriptionUrl = prescriptionUrl;
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\model package com.physio.backend.model;

```
import jakarta.persistence.*;
import lombok.*;
import java.time.LocalDateTime;
@Entity
@Table(name = "activity_logs")
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class ActivityLog {
   @Id
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   private LocalDateTime timestamp;
   private String actor;
   private String mrn;
   private String action;
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\model package com.physio.backend.model;

```
import jakarta.persistence.*;
import lombok.*;
import java.time.LocalDate;
import java.time.LocalTime;
@Entity
@Table(name = "appointments")
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class Appointment {
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   private String patientName;
   private String mrn;
   private String appointmentType; // "Online" or "In-Person"
   private LocalDate date;
   private LocalTime time;
   private String notes;
   private String status; // "Pending", "Approved", "Completed"
   private String meetingLink; // only for online
   private String role; // e.g., "doctor", "counselor"
```

$\label{lem:c:usershp:oneDriveDesktopMolsys Internship\physioo\backend\src\main\java\com\physio\backend\mode\package com.physio.backend.model;} \\$

```
import jakarta.persistence.*;
import lombok.*;
import java.time.LocalDateTime;

@Entity
@Table(name = "blogs")
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class Blog {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
private Long id;

private String title;
private String smallDesc;

@Column(length = 5000)
private String longDesc;

private String banner;

private LocalDateTime date;
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\mode

```
package com.physio.backend.model;
import jakarta.persistence.*;
import lombok.*;
import java.time.LocalDateTime;
@Entity
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class PasswordChangeRequest {
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   private String counselorName;
   private String email;
   private String reason;
   private String status;
   private LocalDateTime requestedAt;
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\mode

```
package com.physio.backend.model;
import jakarta.persistence.*;
import lombok.*;
import java.util.Map;
@Entity
@Table(name = "patients")
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class Patient {
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   private String name;
    private String mrn;
    @Column(name = "patient_condition")
   private String condition;
   private String reportPdfUrl;
    @ElementCollection
    @CollectionTable(name = "patient_charts", joinColumns = @JoinColumn(name = "patient_id"))
    @MapKeyColumn(name = "chart_index")
   @Column(name = "chart_data")
   private Map<String, String> charts;
    @ElementCollection
    @CollectionTable(name = "patient_assignments", joinColumns = @JoinColumn(name = "patient_id"))
   @MapKeyColumn(name = "role")
    @Column(name = "assigned")
   private Map<String, Boolean> assignedTo;
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\model package com.physio.backend.model;

```
import jakarta.persistence.*;
import lombok.*;
import java.time.LocalDateTime;

@Entity
@Table(name = "security_logs")
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class SecurityLog {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private Long userId;
    private String action;
    private String actor;
    private LocalDateTime timestamp;
}
```

$\label{lem:c:usershp:oneDriveDesktopMolsys Internship\physioo\backend\src\main\java\com\physio\backend\mode\package com.physio.backend.model;} \\$

```
import jakarta.persistence.*;
import lombok.*;
import java.util.List;
@Entity
@Table(name = "services")
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class Service {
   6Td
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   private String title;
   private String subtitle;
   private String banner;
   private String priceMonthly;
   private String priceQuarterly;
   private String priceYearly;
   private String rating;
   @Column(length = 2000)
   private String description;
   private String previewVideo;
   @ElementCollection
   private List<String> features;
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\model package com.physio.backend.model;

```
import jakarta.persistence.*;
import lombok.*;

@Entity
@Table(name = "users")
@Data
```

```
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class User {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
    private String name;
    private String email;
   private String password;
    private String role; // e.g., physio, counselor, etc.
File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\repos
package com.physio.backend.repository;
import com.physio.backend.model.ActivityLog;
import org.springframework.data.jpa.repository.JpaRepository;
public interface ActivityLogRepository extends JpaRepository<ActivityLog, Long> {
File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\repos
package com.physio.backend.repository;
import com.physio.backend.model.Appointment;
import org.springframework.data.jpa.repository.JpaRepository;
import java.util.List;
public interface AppointmentRepository extends JpaRepository<Appointment, Long> {
    List<Appointment> findByRoleAndStatusIgnoreCase(String role, String status);
    List<Appointment> findByRole(String role);
}
File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\repos
package com.physio.backend.repository;
import com.physio.backend.model.Blog;
import org.springframework.data.jpa.repository.JpaRepository;
public interface BlogRepository extends JpaRepository<Blog, Long> {
}
File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\repos
package com.physio.backend.repository;
import com.physio.backend.model.PasswordChangeRequest;
import org.springframework.data.jpa.repository.JpaRepository;
public interface PasswordChangeRequestRepository extends JpaRepository<PasswordChangeRequest, Long> {
File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\repos
package com.physio.backend.repository;
import com.physio.backend.model.Patient;
import org.springframework.data.jpa.repository.JpaRepository;
import java.util.List;
import java.util.Optional;
public interface PatientRepository extends JpaRepository<Patient, Long> {
    List<Patient> findByReportPdfUrlIsNotNull();
    Optional<Patient> findByMrn(String mrn);
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\repository;

```
import com.physio.backend.model.SecurityLog;
import org.springframework.data.jpa.repository.JpaRepository;
public interface SecurityLogRepository extends JpaRepository<SecurityLog, Long> {
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\repos package com.physio.backend.repository;

```
import com.physio.backend.model.Service;
import org.springframework.data.jpa.repository.JpaRepository;
public interface ServiceRepository extends JpaRepository<Service, Long> {
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\repository;

```
import com.physio.backend.model.User;
import org.springframework.data.jpa.repository.JpaRepository;
import java.util.Optional;
public interface UserRepository extends JpaRepository<User, Long> {
         Optional<User> findByEmail(String email);
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\service; package com.physio.backend.service;

```
import com.physio.backend.model.ActivityLog;
import com.physio.backend.repository.ActivityLogRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service
public class ActivityLogService {

    @Autowired
    private ActivityLogRepository repo;

    public List<ActivityLog> getAll() {
        return repo.findAll();
    }

    public ActivityLog create(ActivityLog log) {
        return repo.save(log);
    }

    public void delete(Long id) {
        repo.deleteById(id);
    }
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\service; package com.physio.backend.service;

```
import com.physio.backend.model.Appointment;
import com.physio.backend.repository.AppointmentRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service
public class AppointmentService {
    @Autowired
    private AppointmentRepository repo;
    public List<Appointment> getAll() {
```

```
return repo.findAll();
}

public List<Appointment> getByRole(String role) {
    return repo.findByRole(role);
}

public Appointment getById(Long id) {
    return repo.findById(id).orElseThrow();
}

public Appointment create(Appointment a) {
    return repo.save(a);
}

public Appointment update(Long id, Appointment updated) {
    updated.setId(id);
    return repo.save(updated);
}

public void delete(Long id) {
    repo.deleteById(id);
}

public List<Appointment> getCompletedByRole(String role) {
    return repo.findByRoleAndStatusIgnoreCase(role, "Completed");
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\service; package com.physio.backend.service;

```
import com.physio.backend.model.Blog;
import com.physio.backend.repository.BlogRepository;
import\ org. spring framework. beans. factory. annotation. Autowired;
import org.springframework.stereotype.Service;
import java.time.LocalDateTime;
import java.util.List;
@Service
public class BlogService {
    @Autowired
   private BlogRepository repo;
    public List<Blog> getAll() {
        return repo.findAll();
    public Blog getById(Long id) {
        return repo.findById(id).orElseThrow();
    public Blog create(Blog blog) {
        blog.setDate(LocalDateTime.now());
        return repo.save(blog);
    public Blog update(Long id, Blog updated) {
        updated.setId(id);
        return repo.save(updated);
    public void delete(Long id) {
       repo.deleteById(id);
}
```

}

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\service; package com.physio.backend.service;

import com.physio.backend.model.PasswordChangeRequest;

```
import com.physio.backend.repository.PasswordChangeRequestRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;
@Service
public class PasswordChangeRequestService {
    @Autowired
   private PasswordChangeRequestRepository repo;
    public List<PasswordChangeRequest> getAll() {
        return repo.findAll();
    public PasswordChangeRequest save(PasswordChangeRequest req) {
        return repo.save(req);
    public PasswordChangeRequest updateStatus(Long id, String newStatus) {
        PasswordChangeRequest req = repo.findById(id).orElseThrow();
        req.setStatus(newStatus);
        return repo.save(req);
    }
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\service; package com.physio.backend.service;

```
import com.physio.backend.model.Patient;
import com.physio.backend.repository.PatientRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.*;
@Service
public class PatientService {
    @Autowired
    private PatientRepository repo;
    public List<Patient> getAllWithReports() {
        return repo.findByReportPdfUrlIsNotNull();
    public Patient create(Patient p) {
        return repo.save(p);
    public List<Patient> getAll() {
       return repo.findAll();
    \ensuremath{//} ? NEW: Get patient by MRN
    public Optional<Patient> getByMrn(String mrn) {
        return repo.findByMrn(mrn);
    // ? NEW: Patch patient for assignment and charts
    public Patient patch(Long id, Map<String, Object> updates) {
        Patient patient = repo.findById(id)
                .orElseThrow(() -> new RuntimeException("Patient not found"));
        if (updates.containsKey("assignedTo")) {
            Map<String, Boolean> assignment = new HashMap<>();
            ((Map<?, ?>) updates.get("assignedTo")).forEach((k, v) ->
                    assignment.put(String.valueOf(k), Boolean.parseBoolean(v.toString()))
            patient.setAssignedTo(assignment);
        }
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\service; package com.physio.backend.service;

```
import com.physio.backend.model.SecurityLog;
import com.physio.backend.repository.SecurityLogRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service
public class SecurityLogService {

    @Autowired
    private SecurityLogRepository repo;

    public List<SecurityLog getAll() {
        return repo.findAll();
    }

    public SecurityLog save(SecurityLog log) {
        return repo.save(log);
    }
}</pre>
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\service; package com.physio.backend.service;

```
import com.physio.backend.model.Service;
import com.physio.backend.repository.ServiceRepository;
import org.springframework.beans.factory.annotation.Autowired;
import java.util.List;
import java.util.Optional;
@org.springframework.stereotype.Service
public class ServiceService {
    @Autowired
   private ServiceRepository repo;
    public List<Service> getAll() {
       return repo.findAll();
    public Optional<Service> getById(Long id) {
       return repo.findById(id);
    public Service save(Service service) {
       return repo.save(service);
    public Service update(Long id, Service updatedService) {
        Service existing = repo.findById(id).orElseThrow();
        updatedService.setId(id);
        return repo.save(updatedService);
    public void delete(Long id) {
        repo.deleteById(id);
```

```
}
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\main\java\com\physio\backend\services

```
package com.physio.backend.service;
import com.physio.backend.model.User;
import com.physio.backend.repository.UserRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;
import java.util.Map;
import java.util.Optional;
@Service
public class UserService {
    @Autowired
   private UserRepository userRepository;
    public List<User> getAll() {
        return userRepository.findAll();
    public User create(User user) {
       return userRepository.save(user);
    // In UserService.java
   public User patch(Long id, Map<String, Object> updates) {
        User user = userRepository.findById(id).orElseThrow();
        updates.forEach((k, v) -> {
            switch (k) {
                case "role" -> user.setRole(v.toString());
                case "password" -> user.setPassword(v.toString());
        });
        return userRepository.save(user);
    }
    public User update(Long id, User updatedUser) {
        return userRepository.findById(id)
                .map(existing -> {
                    existing.setName(updatedUser.getName());
                    existing.setEmail(updatedUser.getEmail());
                    existing.setPassword(updatedUser.getPassword());
                    existing.setRole(updatedUser.getRole());
                    return userRepository.save(existing);
                })
                .orElseThrow(() -> new RuntimeException("User not found"));
   public void delete(Long id) {
        userRepository.deleteById(id);
   public Optional<User> authenticate(String email, String password) {
       return userRepository.findByEmail(email)
                .filter(user -> user.getPassword().equals(password));
    }
```

File: C:\Users\hp\OneDrive\Desktop\Molsys Internship\physioo\backend\src\test\java\com\physio\backend\Backend\package com.physio.backend;