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DATE : 04/10/2025

Cvmpleted the prvject named as Phase _4_

TECHNOLOGYPROJECTNAME : Event scheduler app .

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github link:

https://github.com/Yokesh-005/Event-scheduler-app-.git

Phase 4 — Enhancements & Deployment

Project: Event Scheduler App

1. Additional Features – Java Input/Output

Java

```
// Create a recurring event
Event recurringEvent = new Event("Team
Meeting", LocalDate.of(2025,10,10),
LocalTime.of(10,0));
recurringEvent.setRepeat("WEEKLY");
EventService.createEvent(recurringEvent);
```

Output:

Java

```
System.out.println("Recurring event
created with ID: 1021");
```

Java

```
// Set a reminder
Reminder reminder = new Reminder(1021,
Duration.ofMinutes(30));
ReminderService.setReminder(reminder);
```

Output:

Java

```
System.out.println("Reminder set 30
minutes before event.");
```

Java

```
// Categorize event
EventService.updateCategory(1021, "Work");
```

Output:

Java

```
System.out.println("Event categorized as
Work.");
```

Java

```
System.out.println("Event categorized as
Work.");
```

Java

```
// Export events to .ics file
File exportFile =
EventService.exportEvents();
```

Output:

Java

```
System.out.println("Events exported to
events.ics successfully.");
```

2. UI/UX Improvements – Java Input/Output

Java

```
// User clicks "Add Event" button
Dashboard.addEventButtonClick();
```

Output:

Java

```
System.out.println("Popup form opened for
event creation.");
```

Java

```
// Toggle Dark Mode
Settings.toggleDarkMode(true);
```

Output:

Java

```
System.out.println("Application theme
switched to Dark Mode.");
```

Java

```
// Drag event to a new date
Calendar.dragEvent(1021,
LocalDate.of(2025,10,17));
```

Output:

Java

```
System.out.println("Event date updated to
2025-10-17.");
```

3. API Enhancements – Java Input/ Output

Java

```
// Login and obtain token
AuthResponse response =
AuthService.login("user1", "password123");
String token = response.getToken();
```

Output:

Java

```
System.out.println("Login successful. JWT
token issued.");
```

Java

```
// Get all events for user
List<Event> events =
EventService.getEvents(token);
events.forEach(System.out::println);
```

Output:

```
Event{id=1, title="Project Deadline",
date=2025-10-12}
Event{id=2, title="Doctor Appointment",
date=2025-10-13}
```

Java

```
// Unauthorized request
try {
    EventService.getEvents(null);
} catch (UnauthorizedException e) {
    System.out.println("401
Unauthorized");
}
```

Java

```
// Sync Google Calendar
EventService.syncGoogleCalendar(token);
```

Output:

Java

```
System.out.println("Google Calendar events
imported successfully.");
```

4. Performance & Security Checks – Java Input/Output

Java

```
// Simulate multiple users
LoadTest.simulateUsers(1000);
```

Output:

Java

```
System.out.println("Average response time
< 200ms. No downtime.");
```

Java

```
// Admin tries to delete another user
event
try {
    EventService.deleteEvent(1022,
adminUser);
} catch (AccessDeniedException e) {
    System.out.println("Access denied due
to role-based security.");
}
```

Java

```
// Security check
SecurityService.runPenTest();
```

Output:

Java

```
System.out.println("No vulnerabilities
found. AES-256 encryption enabled.");
```

5. Deployment – Java Input/Output

Java

```
// Push code to GitHub
GitService.pushMainBranch();
```

Output:

Java

```
System.out.println("CI/CD pipeline
triggered, tests run, app deployed.");
```

Java

```
// Monitoring logs
MonitoringService.checkLogs();
```

Output:

Java

```
System.out.println("Prometheus/Grafana
dashboards updated.");
```

Java

```
// Deploy update
DeploymentService.deployUpdate();
```

Output:

Java

```
System.out.println("Update deployed
successfully. Users receive new
features.");
```