

# Special Event Registration System 260926826

In this deliverable, the Event Registration System provided as an initial code contribution needs to be extended individually. In addition to the existing features developed in tutorials, the *Specialized Event Registration System* shall support the following features.

1. The system shall support managing **promoters**. Each **promoter** can **promote** events. All **promoters** count as persons, that is, they can still be registered to events.
2. In addition to generic events, specific events can be registered as **theatre**. Each **theatre** has one **title** attribute.
3. Users of the system shall be able to register payments for existing registrations. Participants of an event pay for a registration via **CreditCard**. A payment shall record the **card** ID in the format **DDDD-DDDD** (where **D** denotes a digit) and the payment amount in CAD.

## Backend updates

You need to implement all features mentioned above as business methods and make them available as RESTful services using Java Spring Technology. The services need to persist data by using a database. The backend application is provided to you as a gradle project in the `$REPO_ROOT/EventRegistration-Backend/` folder, where `$REPO_ROOT` denotes the root of your assignment repository.

To check the correctness of your application, we published some test cases for the backend, where the source code is located in the `$REPO_ROOT/EventRegistration-Backend/src/test/java/ca/mcgill/ecse321/eventregistration/service`. These tests contain compile errors that you can fix by adding the required missing classes and methods to the project.

**Running the backend tests.** To run the backend tests cases we made available for you, issue `./gradlew test -i` in the `$REPO_ROOT/EventRegistration-Backend/` folder.

### NOTE

Running backend tests require a database connection, that is, you need to configure the `SPRING_DATASOURCE_URL` or the corresponding variables in the `application.properties` file.

## Frontend updates

You need to update the initial web UI to support the specialized features. Below is a screenshot as an illustration of the specialized front end page, where red font indicates newly added elements to the existing UI (substitute «SPECIAL\_ATTRIBUTE» with **title**, «PROFESSIONAL» with **promoter**, and «PAYMENT\_METHOD» with **CreditCard**).

The screenshot displays a web application interface for event registration. It consists of five main sections, each with a title and a table of data or a form.

- Persons**: A table with columns: Name, Events, Payment ID, and Amount (\$). It lists Person1 and Professional1 with their respective events and payment details. Below the table is a form to create a new person.
- Events**: A table with columns: Name, Date, Start, End, and «SPECIAL\_ATTRIBUTE». It lists Event1 and SpecialEvent1. Below the table is a form to create a new event.
- Registrations**: A form to register a person for an event, including dropdowns for Person and Event, and a Register button.
- Assign Professionals**: A form to assign a professional to an event, including dropdowns for «PROFESSIONAL» and Event, and an Assign button.
- Pay for Registration with «PAYMENT\_METHOD»**: A form to make a payment, including dropdowns for Person and Event, input fields for Device Id and Amount, and a Make payment button.

The source code for the end-to-end test cases provided for the project is located in the folder `$REPO_ROOT/EventRegistration-Frontend/test/e2e/specs`, where `$REPO_ROOT` denotes the root of your assignment repository. **The test cases rely on assigning proper identifiers for the UI elements.** The used identifiers are in the `config.js` and `config.json` files within the frontend test folder `$REPO_ROOT/EventRegistration-Frontend/test/e2e/specs`.

**Running the frontend tests.** To run the end-to-end (e2e) tests cases we made available for you, you need to issue `npm run e2e` in the `$REPO_ROOT/EventRegistration-Frontend/` folder.

### NOTE

The successful execution of end-to-end tests requires that you have executed `npm install` in the frontend folder *and* the backend is already running (and it is connected to a database).

### NOTE

When running `npm run e2e` locally, some end-to-end tests may fail if your computer is operating with a higher load - just re-run the tests if this happens to verify correct behavior. The performance will not be an issue in the CI evaluation environment because there will not be many other processes running there and the database will also be locally available.