

VALENTINA



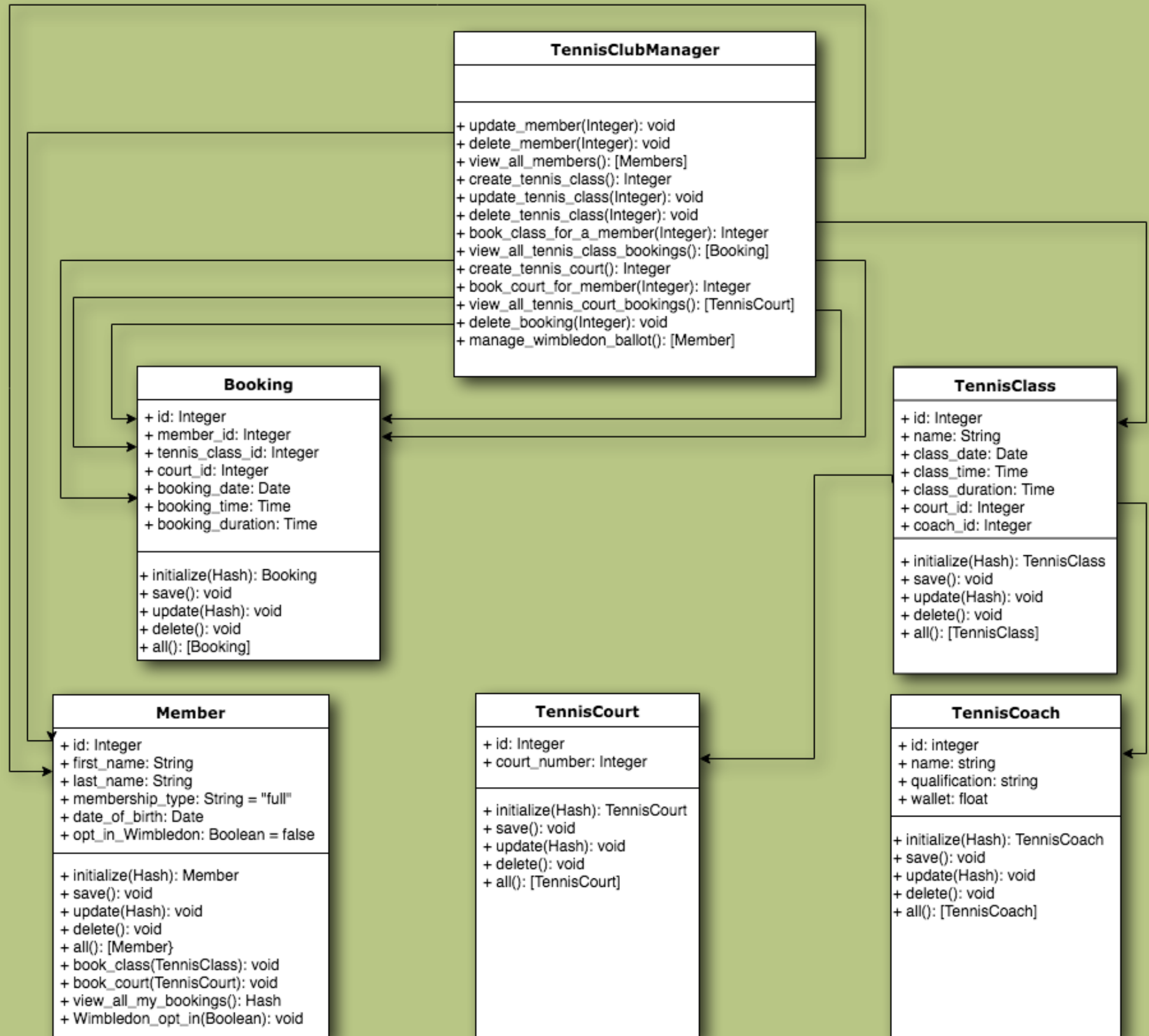
TENNIS CLUB
MANAGEMENT

TENNIS CLUB MANAGEMENT SYSTEM

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CLASS DIAGRAM:



FROM THEORY TO PRACTICE...

```

  project
  |
  +-- .git
  |
  +-- diagrams
  |   |
  |   +-- TennisClubManager_UML_files
  |   |
  |   +-- wireframes
  |       |
  |       +-- Planning_Trello_MVP.png
  |       +-- TennisClub_UseCaseDiagram.jpeg
  |       +-- TennisClubManager_UML.html
  |       +-- TennisClubManager.png
  |
  +-- requirements
  |   |
  |   +-- projects.md
  |   +-- TennisClub.md
  |
  +-- tennis_club_management_system
  |   |
  |   +-- controllers
  |       |
  |       +-- coach_controller.rb
  |       +-- manager_controller.rb
  |       +-- member_controller.rb
  
```

```

  db
  |
  +-- seeds.rb
  +-- sql_runner.rb
  +-- tennis_club.sql
  |
  +-- models
  |   |
  |   +-- specs
  |       |
  |       +-- booking_spec.rb
  |       +-- coach_spec.rb
  |       +-- court_spec.rb
  |       +-- member_spec.rb
  |       +-- tennisclass_spec.rb
  |
  +-- booking.rb
  +-- coach.rb
  +-- court.rb
  +-- courtbooking.rb
  +-- member.rb
  +-- tennisclass.rb
  
```

```

  public
  |
  +-- images
  |
  +-- styles
  |   |
  |   +-- structure.css
  |
  +-- views
  |   |
  |   +-- coaches
  |   |
  |   +-- manager
  |       |
  |       +-- create_tennis_class.erb
  |       +-- edit_member.erb
  |       +-- edit_tennis_class.erb
  |       +-- index.erb
  |       +-- login.erb
  |       +-- members.erb
  |       +-- show_members_coming.erb
  |       +-- tennis_classes.erb
  |
  +-- members
  |   |
  |   +-- all.erb
  |   +-- bookings.erb
  |   +-- courts.erb
  |   +-- index.erb
  |   +-- login.erb
  |   +-- tennis_classes.erb
  |
  +-- index.erb
  +-- layout.erb
  +-- registration_confirmed.erb
  +-- registration.erb
  +-- tennis_app.rb
  
```


SOME CODE...

```
CREATE TABLE members (  
  id SERIAL8 PRIMARY KEY,  
  first_name VARCHAR(255),  
  last_name VARCHAR(255),  
  membership_type VARCHAR(255),  
  date_of_birth DATE,  
  opt_in_Wimbledon BIT  
);
```

```
CREATE TABLE courts (  
  id SERIAL8 PRIMARY KEY,  
  court_number INT2  
);
```

```
CREATE TABLE coaches (  
  id SERIAL8 PRIMARY KEY,  
  first_name VARCHAR(255),  
  last_name VARCHAR(255),  
  qualification VARCHAR(255),  
  date_of_birth DATE,  
  wallet REAL  
);
```

```
CREATE TABLE tennis_classes (  
  id SERIAL8 PRIMARY KEY,  
  name VARCHAR(255),  
  class_date DATE,  
  class_time TIME,  
  class_duration INTERVAL HOUR,  
  court_id INT8 REFERENCES courts(id) ON DELETE CASCADE,  
  coach_id INT8 REFERENCES coaches(id) ON DELETE CASCADE  
);
```

```
CREATE TABLE class_bookings (  
  id SERIAL8 PRIMARY KEY,  
  member_id INT8 REFERENCES members(id) ON DELETE CASCADE,  
  tennis_class_id INT8 REFERENCES tennis_classes(id) ON DELETE CASCADE,  
  court_id INT8 REFERENCES courts(id) ON DELETE CASCADE,  
  booking_date DATE,  
  booking_time TIME,  
  booking_duration INTERVAL HOUR  
);
```

```
CREATE TABLE court_bookings (  
  id SERIAL8 PRIMARY KEY,  
  member_id INT8 REFERENCES members(id) ON DELETE CASCADE,  
  court_id INT8 REFERENCES courts(id) ON DELETE CASCADE,  
  booking_date DATE,  
  booking_time TIME,  
  booking_duration INTERVAL HOUR  
);
```

KEY LEARNINGS:

1. PLANNING saves hours of coding...
...BUT you still need some hours of coding
2. post method needed for security when changing the database, also for deleting

MAIN ONGOING ISSUES:

- :(focusing on MVP forces to change the basic structure