

Group 4 - Assignment 4

1) **GitHub Repository Link**

<https://github.com/JREastonMarks/COSC6353>

Tests can be found in the backend/src/test directory.

2) **SQL Statements (RDMS)**

This is a partial dump of the database tables as they were created by JPA. It has been cleaned up to reduce the number of pages they span.

```
--
-- Table structure for table `event`
--
CREATE TABLE `event` (
  `id` bigint NOT NULL,
  `address` varchar(100) DEFAULT NULL,
  `address2` varchar(100) DEFAULT NULL,
  `city` varchar(100) DEFAULT NULL,
  `eventdate` datetime(6) NOT NULL,
  `description` varchar(255) NOT NULL,
  `name` varchar(100) DEFAULT NULL,
  `urgency` varchar(255) NOT NULL,
  `zipcode` varchar(9) DEFAULT NULL,
  `state` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `FKq4g3rpocwdi2lg3s5hilhwue8` (`state`),
  CONSTRAINT `FKq4g3rpocwdi2lg3s5hilhwue8` FOREIGN KEY (`state`)
REFERENCES `states` (`code`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--
-- Table structure for table `event_seq`
--
CREATE TABLE `event_seq` (
  `next_val` bigint DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--
-- Table structure for table `event_skills`
--
CREATE TABLE `event_skills` (
```

```

    `event_id` bigint NOT NULL,
    `skills_id` bigint NOT NULL,
    KEY `FKndre0lei9jylq67cqhfbag80a` (`skills_id`),
    KEY `FKadu23qphpcmg9rq9x22bckic3` (`event_id`),
    CONSTRAINT `FKadu23qphpcmg9rq9x22bckic3` FOREIGN KEY (`event_id`)
REFERENCES `event` (`id`),
    CONSTRAINT `FKndre0lei9jylq67cqhfbag80a` FOREIGN KEY (`skills_id`)
REFERENCES `skill` (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

```

```

--
-- Table structure for table `eventmatch`
--

```

```

CREATE TABLE `eventmatch` (
  `id` bigint NOT NULL,
  `event_id` bigint DEFAULT NULL,
  `volunteer_id` bigint DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `FKl4qn3kufnj3vunjlsd5y9hxpr` (`event_id`),
  KEY `FK5hw3sdq3yh0h6kygcsqtx7jl1b` (`volunteer_id`),
  CONSTRAINT `FK5hw3sdq3yh0h6kygcsqtx7jl1b` FOREIGN KEY
(`volunteer_id`) REFERENCES `user` (`id`),
  CONSTRAINT `FKl4qn3kufnj3vunjlsd5y9hxpr` FOREIGN KEY (`event_id`)
REFERENCES `event` (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

```

```

--
-- Table structure for table `eventmatch_seq`
--

```

```

CREATE TABLE `eventmatch_seq` (
  `next_val` bigint DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

```

```

--
-- Table structure for table `history`
--

```

```

CREATE TABLE `history` (
  `id` bigint NOT NULL,
  `status` varchar(50) DEFAULT NULL,
  `event_id` bigint DEFAULT NULL,
  `volunteer_id` bigint DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `FKgyu84ci3y6ldab4ylh0d6dmg5` (`event_id`),
  KEY `FKlu919uynacjf8o6r5ayaqkyqc` (`volunteer_id`),

```

```

        CONSTRAINT `FKlu919uynacjf8o6r5ayaqkyqc` FOREIGN KEY
(`volunteer_id`) REFERENCES `user` (`id`),
        CONSTRAINT `FKgyu84ci3y61dab4ylh0d6dmg5` FOREIGN KEY (`event_id`)
REFERENCES `event` (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--
-- Table structure for table `history_seq`
--
CREATE TABLE `history_seq` (
  `next_val` bigint DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--
-- Table structure for table `notification`
--
CREATE TABLE `notification` (
  `id` bigint NOT NULL,
  `date` datetime(6) DEFAULT NULL,
  `message` varchar(255) DEFAULT NULL,
  `title` varchar(255) DEFAULT NULL,
  `receiver_id` bigint DEFAULT NULL,
  `sender_id` bigint DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `FKmlidwdldgmdw6717pbrval0un` (`receiver_id`),
  KEY `FKnbt1hengkgjgru2q44q8rlc2c` (`sender_id`),
  CONSTRAINT `FKmlidwdldgmdw6717pbrval0un` FOREIGN KEY (`receiver_id`)
REFERENCES `user` (`id`),
  CONSTRAINT `FKnbt1hengkgjgru2q44q8rlc2c` FOREIGN KEY (`sender_id`)
REFERENCES `user` (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--
-- Table structure for table `notification_seq`
--

CREATE TABLE `notification_seq` (
  `next_val` bigint DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--
-- Table structure for table `skill`
--

CREATE TABLE `skill` (

```

```

    `id` bigint NOT NULL,
    `name` varchar(100) DEFAULT NULL,
    PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--
-- Table structure for table `skill_seq`
--

CREATE TABLE `skill_seq` (
  `next_val` bigint DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--
-- Table structure for table `states`
--

CREATE TABLE `states` (
  `code` varchar(2) NOT NULL,
  `state` varchar(20) DEFAULT NULL,
  PRIMARY KEY (`code`),
  UNIQUE KEY `UKrdb7pnbo5e3l4vc5bkpk5q6t1` (`state`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--
-- Table structure for table `user`
--

CREATE TABLE `user` (
  `id` bigint NOT NULL,
  `address` varchar(100) DEFAULT NULL,
  `address2` varchar(100) DEFAULT NULL,
  `birthdate` datetime(6) DEFAULT NULL,
  `cell_phone` varchar(255) DEFAULT NULL,
  `city` varchar(100) DEFAULT NULL,
  `first_name` varchar(255) DEFAULT NULL,
  `last_name` varchar(255) DEFAULT NULL,
  `middle_initial` varchar(1) DEFAULT NULL,
  `password` varchar(255) DEFAULT NULL,
  `preferences` varchar(255) DEFAULT NULL,
  `registered` bit(1) NOT NULL,
  `role` varchar(255) DEFAULT NULL,
  `selected_dates` varbinary(255) DEFAULT NULL,
  `sex` tinyint DEFAULT NULL,
  `username` varchar(255) DEFAULT NULL,
  `work_phone` varchar(255) DEFAULT NULL,
  `zipcode` varchar(9) DEFAULT NULL,

```

```

    `state` varchar(255) DEFAULT NULL,
    PRIMARY KEY (`id`),
    UNIQUE KEY `UKsb8bbouer5wak8vyiiy4pf2bx` (`username`),
    KEY `FKghk7poulxc4dv57mh02c1lbpm` (`state`),
    CONSTRAINT `FKghk7poulxc4dv57mh02c1lbpm` FOREIGN KEY (`state`)
REFERENCES `states` (`code`),
    CONSTRAINT `user_chk_1` CHECK ((`sex` between 0 and 1))
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

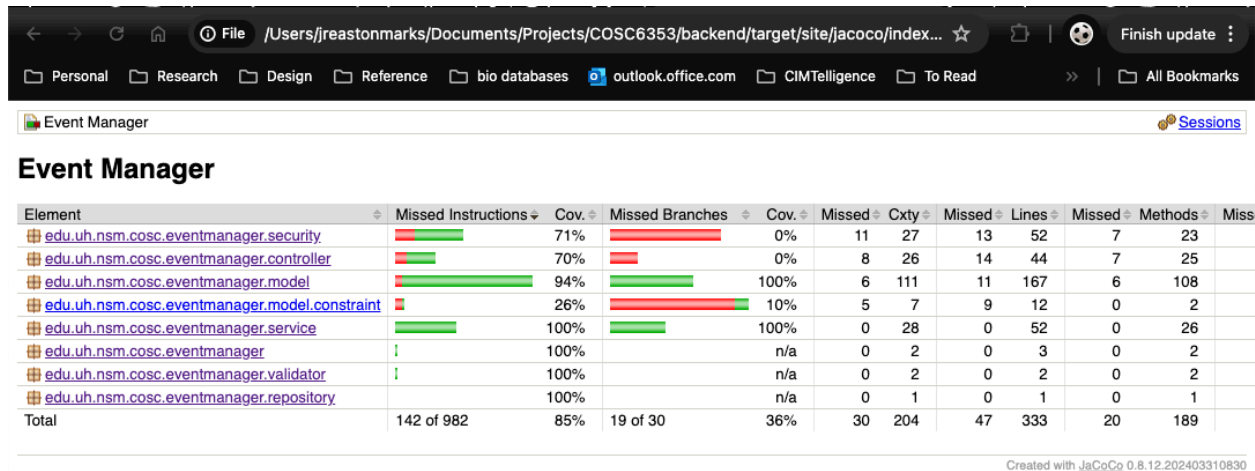
--
-- Table structure for table `user_seq`
--
CREATE TABLE `user_seq` (
  `next_val` bigint DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Table structure for table `user_skills`
--
CREATE TABLE `user_skills` (
  `user_id` bigint NOT NULL,
  `skills_id` bigint NOT NULL,
  KEY `FKtmlY98db09utk8r6xpaldl94l` (`skills_id`),
  KEY `FKrpl0b19tyol3ryrhtxvqfn231` (`user_id`),
  CONSTRAINT `FKrpl0b19tyol3ryrhtxvqfn231` FOREIGN KEY (`user_id`)
REFERENCES `user` (`id`),
  CONSTRAINT `FKtmlY98db09utk8r6xpaldl94l` FOREIGN KEY (`skills_id`)
REFERENCES `skill` (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

```

3) Code Coverage Report

We currently have 85% test coverage as shown below. A PDF attachment is also provided in the submission.



4) Team Contributions

Member Name	Contribution	Notes
Ronald A. Canales	Event Management Volunteer Matching/History	All members contributed equally
Jeremy R. Easton-Marks	Setup Security	All members contributed equally
Thi Quy T. Tran	User Profiles States	All members contributed equally