

Code review:

User story 1:

Academic Record Database (we changed the database name to course enrollment) (Bruce, Matthew)

- Create a user academic database to store the academic records of the student's courses.
- Priority- MEDIUM
- Cost: 3 days

Code of User Story 1:

```
String create_courseEnrolmentTable = "create table course_enrollment" +
    "(course_id varchar(25) not null," +
    " name VARCHAR(100), " +
    " student_id VARCHAR(20) not null," +
    " status VARCHAR(20) not null," +
    " term_taken VARCHAR(10) not null," +
    " grade VARCHAR(2)," +
    " PRIMARY KEY (course_id, student_id)," +
    " FOREIGN KEY (student_id) REFERENCES students(id)," +
    " FOREIGN KEY (course_id) REFERENCES courses(id));";
```

```
// DB already created check
ResultSet rs = statement.executeQuery(checkDB);
rs.next();
if(rs.getInt(1) == 0) {
    System.out.println("Database not found creating it now...");
    statement.executeUpdate(create_database);
    System.out.println("Database created successfully...");
    statement.executeUpdate(use_database);
    System.out.println("Database used successfully...");
    statement.executeUpdate(create_studentTable);
    System.out.println("Student table created successfully...");
    statement.executeUpdate(create_courseTable);
    System.out.println("course table created successfully...");
    statement.executeUpdate(create_courseEnrolmentTable);
    System.out.println("course enrollment table created successfully...");
    statement.executeUpdate(create_adminTable);
    System.out.println("admin table created successfully...");
}
```

For this part of code, it is "duplicate code". In order to fix it, we should use "extract method" to fix it.