

COMPX225 Project Deliverable 1

Due: Sunday, 7 September 2025, 11:59 PM

In this project, you will build a small website that connects to a database. The project will consist of designing a database, creating and populating its tables, writing queries to retrieve information, and designing and implementing a website that interacts with the database. The database will be implemented using MySQL, and the website will be implemented using HTML, CSS, JavaScript, and PHP.

The project has three deliverables. For Deliverable 1, you will work in groups of three people. You will be in an assigned group, which you will be able to locate via Moodle. You should meet as a group each week and record minutes of the group's meetings. This document contains the details for Deliverable 1 only. You will receive additional information concerning each of the remaining deliverables later.

The Scenario:

Kiwi Kloset is a costume rental company located in Hamilton, New Zealand. They offer a wide selection of high-quality costumes for all occasions, from themed parties and school events to theatrical productions and Halloween. The company is responsible for ensuring that the costumes are clean and in good condition. Costumes are cleaned after each time they are hired. They are only repaired if there is significant damage. If the damage is caused by a customer, then the customer will be charged a repair fee. The costumes that Kiwi Kloset offers are similar to those from *Party Dudes* (<https://www.partydudes.co.nz/>). For this project, you can use the data from the *Party Dudes* website and add more if necessary.

Kiwi Kloset has provided the following information and requirements:

- Kiwi Kloset offers many types of costumes (e.g. suit, dress, wig) to hire. Costumes are organized under categories (e.g. movies, historical, Halloween). Each costume has information (e.g. description, size, price). See the *Party Dudes* website for examples of categories and costume information. Costumes are checked by staff for damage after each time the costume is hired. If there is significant damage, the costume will need to be repaired by a staff member. The repairs need to be recorded.
- Kiwi Kloset has several branches in different locations around New Zealand, and each branch has its own manager and staff members. Each branch offers a similar

set of costumes to hire, but some costumes are only available in particular branches.

- Customers do not need to register in advance but will need to provide their details to hire costumes. They must return the costume to the same branch they hired it from. They can book costumes in advance. They can hire costumes for a specified duration (e.g. hours, days, weeks) depending on their needs. Customers can hire several costumes at a time and return them at different times.

Kiwi Klostet would like a website that allows their staff to:

- Add new costumes, and view and update existing ones
- Record the release and return of costumes
- Record costume repairs
- View rental history of costumes (e.g. rental period, branch)
- View various statistics about the rentals (e.g. rank costumes by popularity)

And allows their customers to:

- View costumes
- Register their information (e.g. name, email, phone)
- Book costumes for hire
- View and update booking information

What you need to do for Deliverable 1:

1. Attend group meetings at least once a week to discuss the database design.
2. Submit a report that includes
 - a. The ER Diagram of the database that consists of entities, attributes, relationships and cardinalities. Please underline the attribute(s) that will be used as primary key. Include any design assumptions.
 - b. The Relational Model with primary and foreign keys specified.
 - c. Wireframes for the website, but only for the customer-based requirements.
 - d. Group member contributions.
3. Submit a sql file that includes
 - a. MySQL database table definitions that contain appropriate data types, primary keys, foreign keys, and reasonable check constraints. Include any design assumptions as comments.

- b. MySQL for inserting data into each table. Each table should have at least four rows inserted, though you may want to insert more to help test your design. It is recommended that you try some queries on your data to test your design.

Submission:

1. Submit the meeting minutes to your group's Moodle forum after each meeting.
2. Submit a zip file that contains the report (.doc or .pdf) and the sql file (.sql) to the Deliverable 1 submission page. Hand drawn ER diagrams can be scanned or photographed for submission, just make sure all text is legible. Only one person per group should submit a zip file.

Additional Information:

We recommend that you start early. Don't leave everything to the last minute, when the labs are most crowded. Although the group will be marked as a whole for Deliverable 1, we reserve the right to change an individual mark (up or down) if it is felt the workload was not shared properly. This will be determined from the minutes of the meetings, and from the report.