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Everyone deserves a special umbrella that can tell a story for themselves. **The Umbella** is an online umbrella eCommerce store that sells one high-quality umbrella with multiple amazing shade designs. **The Umbella** dedicates to provide plenty of pattern options which can be categorised in series by the several distinctive art styles. In here, user can learn the artist and the story of the umbrella pattern before they purchase one.

“An open  
umbrella is  
just a closed  
beautiful  
sky.”

– Xavier Forneret



## User stories:

**Title:** Display all the series of different style category which offered by the Umbrella. User should be able to view all the designed umbrella relative to the selected series.

**Story:** As a user, I want to check all the series of the different pattern-style category and view all the available design umbrella in the selected series, so that I can browse the desired topic of design which I am interested in and catch a most beautiful, affordable, wanted one to buy .

**Acceptance Criteria:**

1. One single view has a slide which keep rolling out all the series of different series style category with vivid topic picture and the title of the series that help user to select a series style.
2. If possible, some provocative information about each series can be shown to help to make a decision, such as series slogan, series featuring description.
3. The navigator should has a dropdown menu to allow user quick select a series style.
4. One single view that display all the umbrella before selecting an series. After select an item, the single view should be able to show all the umbrellas which relative to the selected style series.
5. Some vital information for the umbrella should be shown such as umbrella picture, price, purchase button for each item.

**Title:** The user can select a wanted umbrella and view the informative detail.

**Story:** As a user, I want to be able to see all the detail information of the selected umbrella after I select a wanted product so that I can know more interesting fact about the product.

**Acceptance Criteria:**

1. The fascinating information, such as the story of pattern design, artist, umbrella name should be shown to describe the character of the umbrella.
2. The vital details of the umbrella should be visible including umbrella ID, type, colour, pattern style picture, prices, series, description, texture, product dimensions, weight.

3. The picture of each umbrella should be available to help the user understand the umbrella pattern looks like in the real world.

**Title:** User can make an order by adding an interesting stylish umbrella to a wish list if satisfied with the selected one.

**Story:** As a user, I want to create a list by adding interesting umbrella in the list first, so that I can keep browsing other exciting design before finalising my decision.

**Acceptance Criteria:**

1. Every umbrella should have a purchase button that allow user to add the wanted umbrella into the cart.

**Title:** User can view the cart and modify the cart by removing the item from the cart in anytime to refine their decision.

**Story:** As a user, I want to view my wish list so that I can review the umbrella that I am interested in. While I review my wish list, I want to be able to remove the item from my wish list if no longer want it.

**Acceptance Criteria:**

1. The wish list should list out all the selected item.
2. Each item in the wish list can be removed in anytime.
3. User can modify the quantity of the umbrella in the wish list.
4. If the user no longer want anything in the cart, there should have an order remove button which allow the user clean out all the item from an order.

**Title:** Allow user to fill out personal contact information to complete their order and send out the request.

**Story:** As a user, I want to be able to submit my order out to the company by filling my personal contact information, so that I can get reach by the company to in more further detail.

**Acceptance Criteria:**

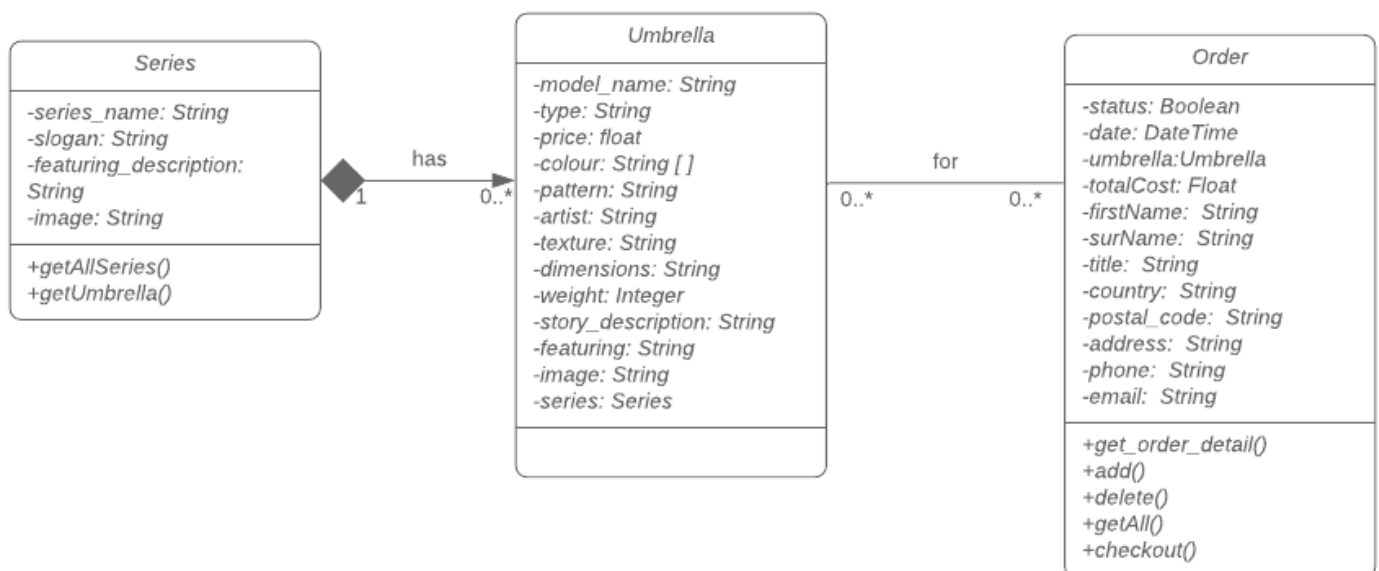
1. The order should be able to be submitted by filling out the required contact information.
2. The contact information should include a user first name, last name, title, country, postal code, deliver address, email, mobile phone and promote code if had one.
3. The user information will be sent combined with the cart to make an order.
4. The user will receive a successful checkout message after sending out the request.

## Conceptual Model:

The **Series class** has its **attributes** including series\_name, slogan, featuring\_description about the Series and the photo of the Series. These attributes can be accessed by **methods** includes get\_all\_Series, and get\_Umbrella. Due to the website will need to show all the Series that contained Umbrella and all Umbrellas that within a particular Series, hence the Series contains get Umbrella method.

**The Umbrella class** has its own **attributes** to describe the some necessary details such as the model\_name, umbrella\_type, price, colour, pattern, artist, texture, dimension, weight, description, umbrella image, series.

Because of the **The Umbrella** eCommerce store focus on received the order detail with the filled-in user information. the **attributes** of the Order class are order status, date, total cost. After checkout the Umbrella order, user are prompted to fill in contact information including first name, surname, title, country, postal\_code, address, phone number and email. The order class has **method** includes add, delete, checkout method to change or finalise their order. The order class also has getAll method to display all the selected Umbrella in the cart.



## Database Design:

The Series table has the series\_id as its primary key. In Umbrella table, umbrella\_id is the primary key and will reference series\_id as foreign key. Each order table will has it own order\_id as the primary key. Due to the many-to-many relationship, in order to identify the order and umbrella that user has, there has a new table, called order detail, which includes both umbrella\_id and order\_id as foreign key to identify the unique order and umbrella combination.

### Multiplicity:

- Each one series can contain multiple umbrella, however, an umbrella only belongs to one series.
- The many umbrellas can be placed in several orders, on the other hand, the multiple orders can have different Umbrellas.

### Associations:

- Composition relationship: every umbrella in the website should belongs to one series. the umbrella cannot exist without in being categorised in a series.

- Association relationship: the order has umbrella and the umbrella can be add into an order, however, both umbrella and order are equally independent.

