



NANYANG
TECHNOLOGICAL
UNIVERSITY

Software Engineering

Project Name - **PowerUp**

Presented By

Team PowerRanger

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Objectives

Our project aims to connect people who are seeking to develop a skill, interest or hobby to vendors that provide lessons via an application platform called PowerUp.

Target audience: Our target audience will be any person of age 7 years old and above who is interested in developing a certain skill, interest or hobby such as dancing and coding

Fostering a SMARTNation

Through this application, Singaporeans are provided an opportunity to participate and connect with one another using technology that ease the accessibility of unique courses which would otherwise be hard to find. By familiarizing themselves with our application, Singaporeans will be more motivated and confident to utilize technology to create content and services, and connect with their communities.

Encourage holistic education across generations

This application focuses on skills across a wide variety of fields, allowing users to develop themselves in a variety of areas beyond the confines of school and work life. Students can diversify their skill sets, and explore atypical career paths. On the other hand, the older generation can pick up new hobbies to widen their horizons beyond their usual established work-life routines.

Support the flow of new knowledge and skills within the community

The application also provides a bridging platform between those seeking self-fulfillment and those seeking to share and spread knowledge of their craft. This encourages greater collaboration and innovation between Singaporeans from different facets of life.

Functional Requirements

1. Account Registration

1.1. The user shall register for an account in the system to use the application.

1.1.1. The user shall input the following details when registering for an account:

- 1.1.1.1. Name
- 1.1.1.2. Date of Birth
- 1.1.1.3. Email Address
- 1.1.1.4. Contact Number
- 1.1.1.5. Password
- 1.1.1.6. Password re-entry

1.1.2. The user shall input these additional details when registering for an account when they are between 7 and 12 years old:

- 1.1.2.1. Next-of-kin name
- 1.1.2.2. Next-of-kin contact number

1.2. The vendor shall register for an account in the system to use the application.

1.2.1. The vendor shall input the following details when registering for an account:

- 1.2.1.1. Email Address
- 1.2.1.2. Name of point of contact
- 1.2.1.3. Contact number
- 1.2.1.4. Password & Password re-entry

1.2.2. The vendor shall input the following details when they are available:

- 1.2.2.1. Business registration number
- 1.2.2.2. Company name

2. Login

2.1. The user shall login using their email address and password.

2.2. The vendor shall login using their email address and password.

2.3. The system shall validate that both fields have been filled up.

2.4. The system shall validate the correctness of the login information (i.e., that the email address is unused and the password matches the password re-entry).

2.5. The system shall display an error message when the login information is incorrect.

2.6. The system shall load the home page when user logs in.

2.7. The system shall load the vendor's profile page when vendor logs in.

2.8. The user shall be able to request for the change of password when the user forgets the password.

2.8.1. The system shall send a new password to the user's email account.

2.9. The vendor shall be able to request for the change of password when the vendor forgets the password.

2.9.1. The system shall send a new password to the vendor's email account.

3. Home Page

- 3.1. The system shall display the list of top 5 courses with highest sign-up rates.
- 3.2. The user shall be able to use the search function by pressing the search bar.
- 3.3. The user shall be able to press the filter options.
- 3.4. The user shall be able to select the profile icon to view his profile details.
- 3.5. The user shall be able click on a particular course entry to view the course details.

4. Search

- 4.1. The user shall be able to search for courses based on their search terms.
 - 4.1.1. The system shall match the user's search terms with the course title, course details and course descriptions.
 - 4.1.2. The system shall display the courses based on their searched terms within 5 seconds.

5. Filter

- 5.1. The user shall be able to shortlist courses based on his selected filters.
 - 5.1.1. The user shall shortlist courses based on the following filters:
 - 5.1.1.1. Category
 - 5.1.1.2. Location
 - 5.1.1.3. Age group
 - 5.1.1.4. Month
 - 5.1.2. The user shall check zero or more number of checkboxes for each filter type.
 - 5.1.3. The system shall return the filtered list of courses within 5 seconds.

6. Order by

- 6.1. The user shall be able to order the list of courses only after the user has used the search or filter functions.
 - 6.1.1. The user shall order the list of courses based on the following:
 - 6.1.1.1. Price from Low to High
 - 6.1.1.2. Price from High to Low
 - 6.1.1.3. Popularity based on sign-up rates from High to Low
 - 6.1.1.4. Rating based on a scale of 0 to 5 from High to Low
 - 6.1.2. The user shall be restricted to one of the 4 ways to order at any one time.

7. User Course Details Page

7.1. The system shall be able to display the details of a course.

7.1.1. The system shall display the following details for a course:

- 7.1.1.1. Course title
- 7.1.1.2. Course description (summary of the course)
- 7.1.1.3. Category
- 7.1.1.4. Rating
- 7.1.1.5. Price
- 7.1.1.6. Location
- 7.1.1.7. Age group
- 7.1.1.8. In-charge name
- 7.1.1.9. In-charge contact number
- 7.1.1.10. Start date
- 7.1.1.11. Registration deadline

7.2. The user shall be able to register for a course.

7.2.1. The user shall select a desired time slot and date for the course.

7.2.3. The user shall confirm his registration for the course.

7.3. The user shall be able to withdraw from a course.

7.3.1. The system shall display a warning message before the user withdraws from a course.

7.3.2. The user shall confirm his withdrawal from the course.

7.4. The user shall only be able to register within the deadline for a course.

7.5. The user shall be able to bookmark a course.

7.6. The user shall be able to unbookmark a course.

8. Vendor Course Details Page

8.1. The system shall be able to display the details of a course.

8.1.1. The system shall display the following details for a course:

- 8.1.1.1. Course title
- 8.1.1.2. Course description (summary of the course)
- 8.1.1.3. Category
- 8.1.1.4. Rating
- 8.1.1.5. Price
- 8.1.1.6. Location
- 8.1.1.7. Age group
- 8.1.1.8. In-charge name
- 8.1.1.9. In-charge contact number
- 8.1.1.10. Start date
- 8.1.1.11. Registration deadline

8.2. The vendor shall be able to view the participant list for a course.

8.3. The vendor shall be able to remove a course.

8.3.1. The system shall display a warning message before the vendor removes a course.

8.3.2. The vendor shall confirm his deletion of the course.

9. User Profile Page

- 9.1. The system shall display the user's profile picture.
- 9.2. The user shall be able to view his list of registered courses.
- 9.3. The user shall be able to view his list of bookmarked courses.

10. Vendor Profile Page

- 10.1. The system shall display the vendor's list of courses created by the vendor.
- 10.2. The vendor shall be able to add courses.
 - 10.2.1. The vendor shall input all details in 8.1.1. in order to add a course.

11. Formats for Information to be processed

- 11.1. Rating
 - 11.1.1. Rating shall be from 1-star to 5-stars and display average in one decimal place of accuracy (e.g. 3.9 stars).
- 11.2. Price
 - 11.2.1. Price format shall be in "\$" and two decimal places of accuracy (e.g. \$1.00).
- 11.3. Date
 - 11.3.1. Date format shall be in "DD/MM/YYYY" (e.g. 25/12/2021).
- 11.4. Time
 - 11.4.1. Time format shall be in 24-hour (e.g. 1300).

Non-functional Requirements

1. Usability

- 1.1. The system shall offer informative feedback.
 - 1.1.1. To provide appropriate error messages to the user when invalid inputs are detected.
 - 1.1.2. To provide appropriate warning messages before any irreversible processes.
- 1.2. The application shall cater to users from young children to the elderly.

2. Performance

- 2.1. The system shall return the searched/filtered results to the user within 5 seconds.
- 2.2. The system shall be able to update the database accordingly when there is any change in the data stored within 5 seconds.

3. Reliability

- 3.1. The system's downtime shall be less than 1 hour per month.
- 3.2. The system shall be accurate and with minimal errors.
- 3.3. The system's functions should be restored after an application restart.

4. Security

- 4.1. The system shall mask the password when users and vendors are keying in the password during login.
- 4.2. The system will implement hashing when passwords are stored in the database.

5. Supportability

- 5.1. The system shall be supported on Android mobile devices.
- 5.2. The database shall be replaceable with any commercial product supporting standard SQL queries.

Data Dictionary

Term	Definition
User	Any person of age 7 years old and above who is using the application to develop a certain skill, interest or hobby such as dancing and coding.
Vendor	Public, private companies and freelancers who are using the application to provide lessons that the users are seeking to learn.
Rating	Rating is the classification of a course based on a scale of 1-star to 5-stars, rounded to one decimal place of accuracy.
Search	Search is a feature that allows users to discover a variety of courses based on certain search terms.
Filter	Filter is a feature that processes the current list of courses and excludes some of them based on different filter types such as Category, Location, Age group and Month.
Order by	Order by is a feature that sorts the list of courses based on the selected attribute such as Price, Popularity or Rating.
Favorites	Favourites is a feature that allows users to bookmark their favourite courses, and they are able to retrieve their list of favourite courses for future references.
Registration	Registration refers to a feature that allows the user and the vendor to sign up for an account to access the PowerUp application.
Popularity	The sign-up rate of a course.
Course	Extracurricular activities or hobbies-related lessons.
Course description	Short summary of the course that explains what the user will learn or experience from it.
Next-of-kin	Parents or guardians of children between 7 and 12 years old.

System	A system refers to the PowerUp Android mobile application.
Participant List	List of registered users under the course provided by the vendor.

Use Case Diagram



Use Case Descriptions

Use Case ID:	1		
Use Case Name:	User Registration		
Created By:	Ong Yi Xiong	Last Updated By:	Jaw Li Sheng
Date Created:	31/01/2021	Date Last Updated:	01/02/2021

Actor:	User
Description:	Registration of a new user account.
Precondition:	<ol style="list-style-type: none"> 1. The user holds a valid email account (i.e. email address exists).
Postcondition:	<ol style="list-style-type: none"> 1. The user creates a "PowerUp" user account.
Priority:	High
Frequency of use:	Once
Flow of events:	<ol style="list-style-type: none"> 1. User clicks on the option to register an account as a user. 2. User enters compulsory fields: name, date of birth, email, contact number, password and password re-entry. 3. User enters optional fields (kids under 12): next-of-kin name, next-of-kin contact number 4. User clicks on the "Register" icon. 5. The system checks if the contents in password and password re-entry fields are identical. 6. The system checks if the account already exists in the system database. 7. The system implements Email Validation (reference to Use Case 3).
Alternative Flows:	<p>AF-S2: Compulsory fields not filled</p> <ol style="list-style-type: none"> 1. System displays an error message "Compulsory fields are not filled!" 2. System returns to step 2. <p>AF-S4: Password mismatch</p> <ol style="list-style-type: none"> 1. System displays an error message "Passwords do not match! Please try again." 2. User keys in a password that matches. 3. System returns to step 3. <p>AF-S5: Email already in use</p> <ol style="list-style-type: none"> 1. System displays and error message "Email is already in

	use. Please try again.” 2. User keys in a new email address. 3. System returns to step 3.
Exceptions:	-
Includes:	Email validation (Use-Case 3)
Special Requirements:	-
Assumptions:	User has a stable Internet connection.
Notes and Issues:	-

Use Case ID:	2		
Use Case Name:	Vendor Registration		
Created By:	Ong Yi Xiong	Last Updated By:	Jaw Li Sheng
Date Created:	31/01/2021	Date Last Updated:	01/02/2021

Actor:	Vendor
Description:	Account registration of a new vendor account.
Precondition:	<ol style="list-style-type: none"> 1. The vendor holds a valid email account (i.e. email address exists).
Postcondition:	<ol style="list-style-type: none"> 1. The vendor creates a "PowerUp" vendor account.
Priority:	High
Frequency of use:	Once
Flow of events:	<ol style="list-style-type: none"> 1. User clicks on the option to register an account as a vendor. 2. Vendor enters compulsory fields: email, name of point of contact, contact number, password and password re-entry. 3. Vendor enters optional fields: business registration number, company name. 4. Vendor clicks on the "Register" icon. 5. The system checks if the contents in password and password re-entry fields are identical. 6. The system checks if the account already exists. 7. The system implements Email Validation (reference to Use Case 3).
Alternative Flows:	<p>AF-S2: Compulsory fields not filled</p> <ol style="list-style-type: none"> 1. System displays an error message "Compulsory fields are not filled!" 2. System returns to step 3. <p>AF-S4: Password mismatch</p> <ol style="list-style-type: none"> 1. System displays an error message "Passwords do not match! Please try again." 2. Vendor keys in a password that matches. 3. System returns to step 4. <p>AF-S5: Email already in use</p> <ol style="list-style-type: none"> 1. System displays an error message "Email is already in use. Please try again." 2. Vendor keys in a new email address.

	3. System returns to step 4.
Exceptions:	-
Includes:	Email validation (Use-Case 3)
Special Requirements:	-
Assumptions:	Vendor has a stable Internet connection.
Notes and Issues:	-

Use Case ID:	3		
Use Case Name:	Email Validation		
Created By:	Ong Yi Xiong	Last Updated By:	Ong Yi Xiong
Date Created:	31/01/2021	Date Last Updated:	01/02/2021

Actor:	User, Vendor
Description:	User/Vendor verifies their account to complete their registration.
Precondition:	<ol style="list-style-type: none"> 1. Account does not already exist in the database. 2. Account is not verified. 3. The system sends a verification email containing the verification code to the email address given during account registration (i.e. Use Case 1 or 2) has taken place.
Postcondition:	Account is created and logged into the database.
Priority:	High
Frequency of use:	Once
Flow of events:	<ol style="list-style-type: none"> 1. System sets a 30 minutes verification window using an on-screen timer. 2. User/Vendor enters verification code in the verification code field. 3. System checks that the verification code is valid. 4. System creates an account in the database. 5. System displays "Registration successful! Account created!"
Alternative Flows:	<p>AF-S2: Invalid verification code</p> <ol style="list-style-type: none"> 1. System displays an error message "Verification code is not valid! Please try again." 2. System returns to step 1. <p>AF-S2: User enters verification code after the 30-minute verification window.</p> <ol style="list-style-type: none"> 1. System displays an error message "Verification code has expired. Click 'resend' to receive a new verification code." 2. User/Vendor clicks on "Resend". 3. System returns to step 1.
Exceptions:	-
Includes:	-

Special Requirements:	-
Assumptions:	User/Vendor has a stable Internet connection.
Notes and Issues:	-

Use Case ID:	4		
Use Case Name:	Search		
Created By:	Jessica Halim	Last Updated By:	Jessica Halim
Date Created:	31/01/2021	Date Last Updated:	01/02/2021

Actor:	User
Description:	Search for matching words in the course title and course description typed in by the user.
Precondition:	1. Account is logged into the system.
Postcondition:	1. All the courses from the system's search results are displayed.
Priority:	High
Frequency of use:	Every time a user wants to survey certain types of courses or look for a specific course.
Flow of events:	<ol style="list-style-type: none"> 1. User keys in search term 2. User clicks the search button. 3. The system searches through the database for course titles, course descriptions or vendor names containing the search term. 4. System displays a list of search results.
Alternative Flows:	AF-S4: No search results are shown <ol style="list-style-type: none"> 1. The system displays the error message "There is no course matching your search term." 2. User keys in another search term and clicks on the search button. 3. System returns to step 3.
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	The user has a stable Internet connection.
Notes and Issues:	-

Use Case ID:	5		
Use Case Name:	Filter		
Created By:	Jessica Halim	Last Updated By:	Jessica Halim
Date Created:	31/01/2021	Date Last Updated:	01/02/2021

Actor:	User
Description:	User filters through the current list of courses for a more user-specific result list.
Precondition:	<ol style="list-style-type: none"> 1. Account is logged into the system. 2. Courses must specify at least one value for the fields of location, age group, month and category.
Postcondition:	<ol style="list-style-type: none"> 1. A list of courses which meet all the filter condition(s) indicated by the user is shown.
Priority:	Low
Frequency of use:	When too many courses are shown and the user wants to choose from a smaller number of user-specific courses.
Flow of events:	<ol style="list-style-type: none"> 1. User selects the filter types to filter by - between Category, Location, Age Group and Month. 2. User selects all desired conditions of search results. (e.g. for Location, user selects both 'North' and 'West', to narrow down search results to those only in either the 'North' or 'West' areas of Singapore.) 3. User repeats steps 1 and 2 for all filter types the user wants to filter for. 4. User clicks on the 'Filter' button. 5. System searches database for courses with categories that match the filter conditions. 6. Filtered search results are shown.
Alternative Flows:	<p>AF-S6: No filtered results are found.</p> <ol style="list-style-type: none"> 1. The system displays the error message "No such courses are available." 2. System returns to step 1.
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	The user has a stable Internet connection.

Notes and Issues:	-
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Use Case ID:	6		
Use Case Name:	Order By		
Created By:	Jessica Halim	Last Updated By:	Jessica Halim
Date Created:	31/01/2021	Date Last Updated:	01/02/2021

Actor:	User
Description:	Courses are ordered by the user's preferred criteria.
Precondition:	<ol style="list-style-type: none"> 1. Account is logged into the system. 2. Search (Use Case 4) and/or Filter (Use Case 5) has been conducted. 3. A list of results was generated via Search (Use Case 4) and/or Filter (Use Case 5).
Postcondition:	<ol style="list-style-type: none"> 1. Search and/or filtered results are ordered by the selected criteria.
Priority:	Low
Frequency of use:	When the user wants to view the top few of a certain criteria out of his/her search results.
Flow of events:	<ol style="list-style-type: none"> 1. User selects criteria to order by - between Price - Low to High, Price - High to Low, Popularity, Rating (only one of such criteria can be selected). 2. System orders the results according to the selected criteria.
Alternative Flows:	-
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	The user has a stable Internet connection.
Notes and Issues:	-

Use Case ID:	7		
Use Case Name:	Course Registration		
Created By:	Syed Anas Majid	Last Updated By:	Syed Anas Majid
Date Created:	31/01/2021	Date Last Updated:	31/01/2021

Actor:	User
Description:	Registration for a new course
Precondition:	<ol style="list-style-type: none"> 1. User account is logged in. 2. User selects a course from the list of courses and enters the course details page. 3. User is not already registered for the course. 4. The course has vacancies available. 5. The registration deadline for the course has not passed.
Postcondition:	<ol style="list-style-type: none"> 1. The user is registered for the selected course. 2. Number of vacancies is decremented by 1. 3. New courses are added to the user's list of registered courses.
Priority:	High
Frequency of use:	0-5 times per month
Flow of events:	<ol style="list-style-type: none"> 1. User selects the "Register" icon under the course details page. 2. User then selects the date and timing of the course and presses the "Confirm Registration" button in a pop-up. 3. System displays a confirmation message to confirm course registration. 4. System updates list of vacancies. 5. System updates registered courses list noting the registration details of the course. 6. System updates vendor's participation list. 7. User clicks the "OK" button to close the confirmation message. 8. System redirects to the course details page.
Alternative Flows:	<p>AF-S3: If the course does not have any more vacancies available when the user tries to register for a course.</p> <ol style="list-style-type: none"> 1. System displays error message: "This timeslot does not have any more vacancies available." 2. System redirects to the course details page.
Exceptions:	EX1: If the vendor deletes the course while user is registering.

	<ol style="list-style-type: none"> 1. System displays error message: "This course is no longer available." 2. System redirects to the list of available courses.
Includes:	-
Special Requirements:	-
Assumptions:	The user has a stable Internet connection.
Notes and Issues:	-

Use Case ID:	8		
Use Case Name:	Withdraw from course		
Created By:	Ong Yi Xiong	Last Updated By:	Jaw Li Sheng
Date Created:	31/01/2021	Date Last Updated:	31/01/2021

Actor:	User
Description:	Withdraw from a registered course
Precondition:	<ol style="list-style-type: none"> 1. User account is logged in. 2. User has registered for the course.
Postcondition:	<ol style="list-style-type: none"> 1. The user is no longer registered for the course. 2. Number of vacancies is incremented by 1. 3. The course is removed from the user's list of registered courses. 4. Vendor's participation list is updated.
Priority:	Low
Frequency of use:	0-5 times per month
Flow of events:	<ol style="list-style-type: none"> 1. User navigates to his/her list of registered courses in the profile page. 2. User selects the course to be removed. 3. System redirects to the selected course details page. 4. User selects the "Withdraw from course" button. 5. System displays a warning message - "Are you sure you want to withdraw from this course?" to confirm course withdrawal. 6. User clicks the "OK" button to close the confirmation message. 7. System displays a confirmation message to confirm the withdrawal of the course. 8. System updates list of vacancies. 9. System updates user's registered courses list. 10. System updates vendor's participant list. 11. System redirects to the course details page.
Alternative Flows:	<p>AF-S6: User clicks on "Cancel" button to reverse removal of course.</p> <ol style="list-style-type: none"> 1. System directs the user back to the course details page.
Exceptions:	-
Includes:	-

Special Requirements:	-
Assumptions:	The user has a stable Internet connection.
Notes and Issues:	-

Use Case ID:	9		
Use Case Name:	Bookmark favourite courses (User)		
Created By:	Syed Anas Majid	Last Updated By:	Syed Anas Majid
Date Created:	31/01/2021	Date Last Updated:	31/01/2021

Actor:	User
Description:	User adds or removes courses from favourites list.
Precondition:	1. The user is logged into the system.
Postcondition:	1. Course is added to or removed from the favourites list.
Priority:	Low
Frequency of use:	0-30 times per month
Flow of events:	<ol style="list-style-type: none"> 1. System displays a list of available courses to choose from. 2. User selects a course from the list of courses. 3. System displays course details, with the favourite button, which is not highlighted. 4. User clicks on the favourite button. 5. System displays message: "Course has been added to favourites!" that disappears after 3 seconds.
Alternative Flows:	<p>AF-S3: If the course is already in favourites list.</p> <ol style="list-style-type: none"> 1. System displays course details, with the favourite button, which is highlighted. 2. User selects the favourite button. 3. System displays message: "Course has been removed from favourites!" that disappears after 3 seconds.
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	The user has a stable Internet connection.
Notes and Issues:	-

Use Case ID:	10		
Use Case Name:	Retrieve list of registered and favourite courses		
Created By:	Syed Anas Majid	Last Updated By:	Syed Anas Majid
Date Created:	31/01/2021	Date Last Updated:	31/01/2021

Actor:	User
Description:	User retrieves a list of favourite courses, registered courses and their details.
Precondition:	1. The user is logged into the system.
Postcondition:	1. A list of the user's favourite courses or registered courses is displayed.
Priority:	High
Frequency of use:	0-5 times per day.
Flow of events:	<ol style="list-style-type: none"> 1. User navigates to the profile page. 2. System displays two buttons: "Favourite courses" and "Registered courses". 3. User selects the "Favourite courses"/"Registered courses" button. 4. System displays list of favourite/registered courses.
Alternative Flows:	<p>AF-S4: No courses have been added to the list of favourite/registered courses.</p> <ol style="list-style-type: none"> 1. System displays message: "No courses have been added to favourites/registered for." <p>AF-S5: User selects a course from the list of favourites or registered courses.</p> <ol style="list-style-type: none"> 1. System redirects to a course details page.
Exceptions:	<p>EX1: If the vendor removes a course from the user's favourite/registered courses list.</p> <ol style="list-style-type: none"> 1. The removed course is automatically deleted from the list. 2. System sends an email notification to the user for any registered course that is removed. (Reference to Use Case 12) 3. Updated list is displayed.
Includes:	Remove Course (Use Case 12)
Special Requirements:	-

Assumptions:	The user has a stable Internet connection.
Notes and Issues:	-

Use Case ID:	11		
Use Case Name:	Add Course (Vendor)		
Created By:	Alvin Tang	Last Updated By:	Chua Wen Qing
Date Created:	01/02/2021	Date Last Updated:	01/02/2021

Actor:	Vendor
Description:	Vendor adds a new course for users to sign up for.
Precondition:	<ol style="list-style-type: none"> 1. The vendor is logged into the system. 2. The vendor must be on the vendor profile page to click on "Add Course"
Postcondition:	<ol style="list-style-type: none"> 1. Vendor's newly added course is added into the database.
Priority:	High
Frequency of use:	0 - 10 times per month.
Flow of events:	<ol style="list-style-type: none"> 1. Vendor clicks on the "Add Course" button. 2. Vendor inputs compulsory fields: the name of the course, select the category for the course, specify the number of classes or sessions under the course and their class vacancies, start to end date and time of the course, deadline for registration of the course, input the location, price, age group as well as the name and contact information of the trainer for the course. 3. Vendor selects the confirm button. 4. System validates if all fields have valid inputs. 5. System adds the vendor's newly added course into the database. 6. System displays an alert message "Course is successfully added."
Alternative Flows:	<p>AF-S2: Compulsory fields not filled</p> <ol style="list-style-type: none"> 1. System displays an error message "Compulsory fields are not filled!" 2. System returns to step 2. <p>AF-S4: System detects field(s) with invalid inputs</p> <ol style="list-style-type: none"> 1. System displays an error message "Input is not valid! Please try again." at the corresponding field(s). 2. Vendor gives a valid input. 3. Vendor selects the confirm button. 4. System returns to step 4.

Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	Vendor has a stable internet connection.
Notes and Issues:	-

Use Case ID:	12		
Use Case Name:	Remove Course (Vendor)		
Created By:	Alvin Tang	Last Updated By:	Chua Wen Qing
Date Created:	01/02/2021	Date Last Updated:	01/02/2021

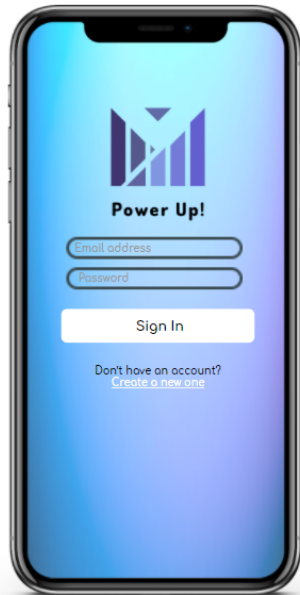
Actor:	Vendor
Description:	Vendor removes an existing course.
Precondition:	<ol style="list-style-type: none"> 1. The vendor is logged into the system. 2. The vendor must have selected a course listed under the vendor's profile page and have entered a course details page.
Postcondition:	<ol style="list-style-type: none"> 1. Vendor's course is removed from the database. 2. Users registered for the course are notified via email. 3. Course is removed from all 'Registered Courses' and 'Favourite Courses' lists.
Priority:	Low
Frequency of use:	0 - 5 times per month
Flow of events:	<ol style="list-style-type: none"> 1. Vendor clicks on the "Remove Course" option under the course details page. 2. System displays a confirmation message "Removing this course will erase all information about it on your account. Do you want to continue?" for the removal of course, and a confirm button for the vendor. 3. Vendor selects the confirm button. 4. System removes the selected course from the database. 5. System displays an alert message "Course is successfully removed."
Alternative Flows:	<p>AF-S2: Vendor clicks on "Cancel" button to reverse removal of course.</p> <ol style="list-style-type: none"> 2. System directs the vendor back to the course details page. <p>AF-S4: System detects that there are still users registered for the course.</p> <ol style="list-style-type: none"> 1. System sends email notification to the registered users to inform them that the course has been removed. 2. System returns to step 4.
Exceptions:	-

Includes:	-
Special Requirements:	-
Assumptions:	<ol style="list-style-type: none"> 1. Users that already received an email notification on the removal of the course understands that the course is being removed. 2. Vendor has a stable internet connection.
Notes and Issues:	-

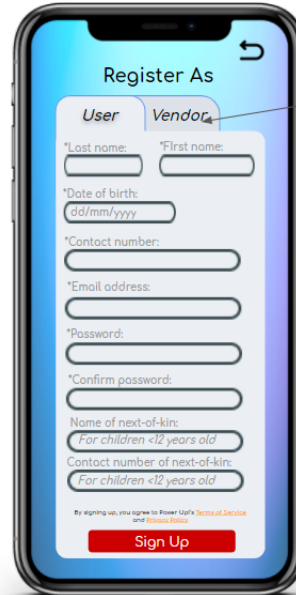
Use Case ID:	13		
Use Case Name:	View participant list for a course		
Created By:	Jaw Li Sheng	Last Updated By:	Alvin
Date Created:	31/01/2021	Date Last Updated:	01/02/2021

Actor:	Vendor
Description:	Vendor views a list of participants for a course.
Precondition:	1. Vendor has at least 1 course in the system.
Postcondition:	1. A list of the participants for a course is displayed.
Priority:	Medium
Frequency of use:	Anytime after a new course has been added into the system.
Flow of events:	<ol style="list-style-type: none"> 1. Vendor navigates to the profile page. 2. Vendor clicks onto a course that he/she has added into the system under. 3. Vendor presses the "View Participants" button under the Course Details page. 4. A pop-up appears displaying the details of the participants that registered for that course.
Alternative Flows:	AF-S4: No participants have registered for the course <ol style="list-style-type: none"> 1. A pop-up appears with a system error message: "No participants have registered for this course."
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	Vendor has a stable Internet connection.
Notes and Issues:	-

UI Mockups

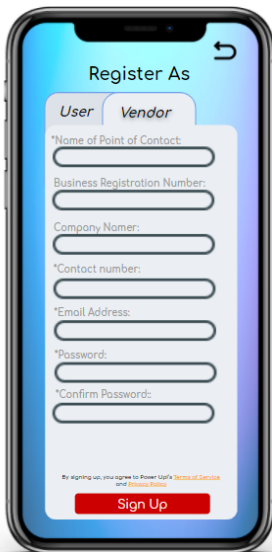


Login
Page

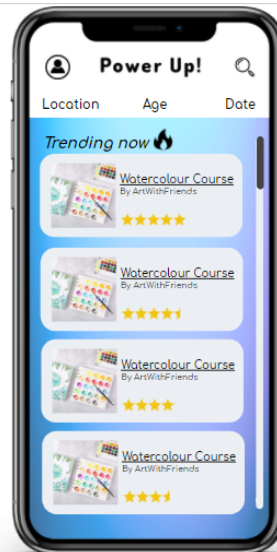


Account Registration
Page (Vendor)

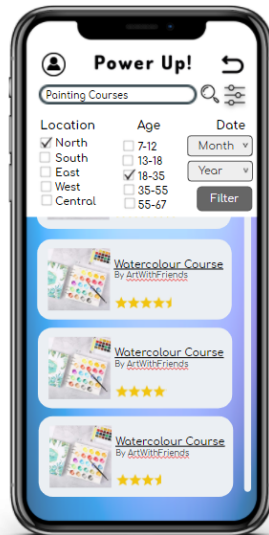
Account
Registration
Page (User)



Account
Registration
Page (Vendor)

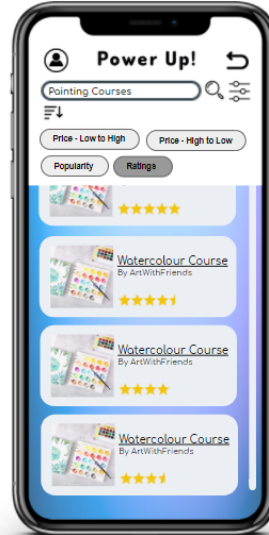


Home Page



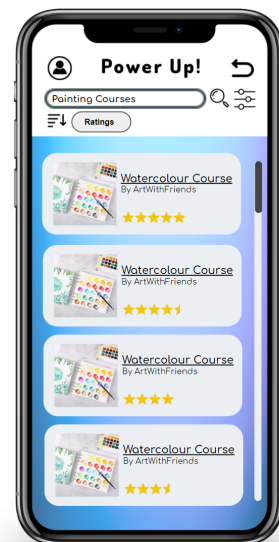
Search Process

- Search bar
- Filter (optional)



Search Process

- Order By (optional)



Search Process

- ✓ Search bar
- ✓ Filter
- ✓ Order By



Course Details Page

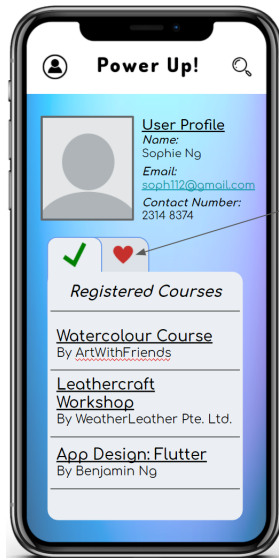


User's Course details Page

Registration Confirmation Popup

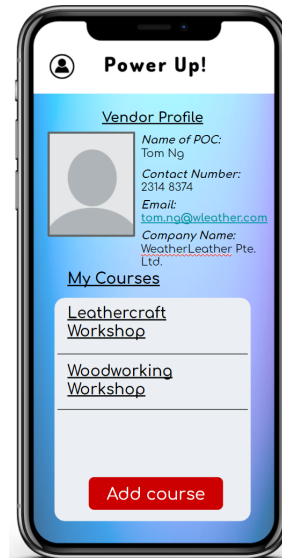


Registration Confirmation Page

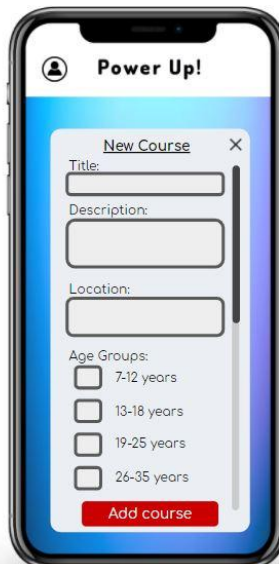


List of Favoured Courses

User Profile Page



Vendor Profile Page



Popup to add new course



Vendor's Course details Page



Popup to view Participant List