

**NANYANG  
TECHNOLOGICAL  
UNIVERSITY**  
**SINGAPORE**

**SC2006 - Software Engineering  
Lab 1 Deliverables**

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# 1. Documentation of Functional and Non-Functional Requirements

## A. Functional Requirements

### 1. Account Registration

- 1.1. Users shall be able to register an account manually through their email.
  - 1.1.1. The system must validate emails during registration.
    - 1.1.1.1. The validation shall use a simplified non-exhaustive regular expression (regex) to ensure the email format is valid (e.g., username@domain.com), belongs to an existing email domain.
      - 1.1.1.1.1. The system must enforce if there is 1 character before “@”
      - 1.1.1.1.2. The system must enforce if there is 1 character after “@”
      - 1.1.1.1.3. The system must enforce if there is a singular “@”
      - 1.1.1.1.4. The system must enforce if the address ends with a valid top-level domain (TLD).
    - 1.1.1.2. The system must check if the email is already associated with an existing account.
    - 1.1.1.3. The system must prevent the use of disposable email addresses by checking against a list of known domains.
    - 1.1.1.4. If the email is already associated with an existing account, the interface must indicate that the user has to choose another email because it has been taken.
    - 1.1.1.5. If the email is valid and not associated with an existing account, it must be stored in a database.
  - 1.1.2. Each account registered by the user must have a password.

- 1.1.2.1. The system must enforce a minimum password complexity of at least 8 characters.
  - 1.1.2.2. The system must enforce a minimum password complexity of 1 upper-case letter.
  - 1.1.2.3. The system must enforce a minimum password complexity of 1 lower-case letter.
  - 1.1.2.4. The system must enforce a minimum password complexity of 1 symbol character.
  - 1.1.2.5. The system will display an error toast message if the password complexity criteria are not fulfilled. (refer to 1.1.2.1 to 1.1.2.4)
  - 1.1.2.6. The password created must be stored in a database.
- 1.1.3. The system must send a confirmation email to the user after registration.
- 1.1.3.1. The confirmation email must contain a unique verification link.
  - 1.1.3.2. The system must ensure the verification link can only be used once.
  - 1.1.3.3. If the link is expired or invalid, the system must display a toast message that shows “The link is invalid”.
  - 1.1.3.4. The system must redirect the user to a success page, displaying a toast message that shows “Verification is successful.” after verification.
- 1.2. Users shall be able to register their accounts using social media authentication methods.
- 1.2.1. The system must support social media authentication methods.
- 1.2.1.1. The system must be able to support Google.
  - 1.2.1.2. The system must be able to support Facebook.
- 1.2.2. The system shall retrieve the user’s email and basic profile information from the social media account.
- 1.2.2.1. The system must request only the essential information from the user’s social media profile.

- 1.2.2.1.1. The system must request the user's profile picture from their social media profile.
  - 1.2.2.1.2. The system must request the user's full name from their social media profile.
  - 1.2.2.1.3. The system must request the user's email from their social media profile.
- 1.3. The user shall be able to delete their account.

## 2. User Authentication

- 2.1. Users shall be able to log in using their email and password.
  - 2.1.1. The system must encrypt passwords using a secure hashing algorithm, before storing them.
    - 2.1.1.1. The system must enforce a minimum password complexity. (refer to 1.1.2.1)
    - 2.1.1.2. The system must implement rate limiting to prevent brute force attacks.
      - 2.1.1.2.1. The system must impose a rate limit at 5 attempts per 30 minutes.
  - 2.1.2. The system must allow users to log in using their social media accounts if they registered using this method. (refer to 1.2.1)
    - 2.1.2.1. The system must verify the user's social media credentials before granting access to the user.
    - 2.1.2.2. If the user provides an unregistered email address, a toast message must appear to prompt the user to register an account, and the user cannot proceed to log in.
    - 2.1.2.3. The system must synchronize any profile changes made in the social media account with the user's profile.
- 2.2. Users shall be able to reset their passwords.
  - 2.2.1. The system must provide a "Forgot Password" option on the login page.

- 2.2.1.1. The system must prompt users to enter their registered email to initiate the password reset process.
  - 2.2.1.2. The system must send a password reset link to the user's registered email.
  - 2.2.1.3. The system must notify users if the entered email is not associated with any account.
- 2.2.2. The system must allow users to set a new password that meets the defined complexity requirements. (refer to 1.1.2)
- 2.2.2.1. The system must enforce minimum password length and character variety (refer to 1.1.2).
  - 2.2.2.2. The system must display a toast message if the password criteria are not fulfilled during the reset process. (refer to 1.1.2.5)
  - 2.2.2.3. The system must prevent users from reusing their existing password.
- 2.2.2.3.1. If the user reuses their existing password, display a toast message that says " You cannot change your password to your existing password ".
- 2.3. Users shall be able to log out of their accounts.
- 2.3.1. The system must provide a logout function on every page once the user is logged in.
  - 2.3.2. The system must terminate the user session immediately after the "Logout" button is clicked.
  - 2.3.3. The system must redirect the user to the login page immediately after logout.
  - 2.3.4. The system must display a toast message "You have successfully logged out" upon successful logout.

### 3. Academic Interest & Performance Input

- 3.1. Users shall be able to input their academic interests and performance.

3.1.1. The system must allow users to enter their grades for key secondary academic subjects relevant to polytechnic courses.

3.1.1.1. The system must support various subjects, including compulsory and elective subjects as mentioned below.

3.1.1.1.1. Compulsory Subjects

3.1.1.1.1.1. English

3.1.1.1.1.2. Elementary Mathematics

3.1.1.1.2. Elective Subjects

3.1.1.1.2.1. Principles of Accounts

3.1.1.1.2.2. Literature in Chinese/Malay/Tamil

3.1.1.1.2.3. History

3.1.1.1.2.4. Geography

3.1.1.1.2.5. Literature

3.1.1.1.2.6. Art

3.1.1.1.2.7. Music

3.1.1.1.2.8. Drama

3.1.1.1.2.9. Physical Education

3.1.1.1.2.10. Physics

3.1.1.1.2.11. Chemistry

3.1.1.1.2.12. Biology

3.1.1.1.2.13. Combined Science

3.1.1.1.2.14. Combined Humanities with Social Studies

3.1.1.1.2.15. Nutrition and Food Science

3.1.1.1.2.16. Electronics

3.1.1.1.2.17. Design and Technology

3.1.1.1.2.18. Computing

3.1.1.1.2.19. Additional Mathematics

3.1.1.1.2.20. Higher Chinese/Malay/Tamil

3.1.1.1.2.21. Mother Tongue

3.1.1.2. The system must validate the grades entered by the user.

3.1.1.2.1. The system validates either through letter grades (A1 to F9).

3.1.1.3. The system must allow users to update their grades.

3.1.2. The system shall provide an interface for users to specify their interest in various academic subjects.

3.1.2.1. The system must offer a list of predefined academic fields for users to choose from. (refer to 3.1.1.1)

3.1.2.2. The system must allow users to select their interest in each academic field.

3.1.2.3. The system must suggest related academic fields based on the user's indicated interests in 3.1.2.

## 4. Situational Test

4.1. The system shall present a situational test users can take to assess users' interests, strengths, and personality traits.

4.1.1. The test must include Likert scale Situational questions.

4.1.1.1. The test must have 48 questions covering different aspects of personality and interests.

4.1.1.2. The Likert scale must have 5 ranking options:

4.1.1.2.1. The first option shall display "Strongly Disagree".

4.1.1.2.2. The second option shall display "Disagree".

4.1.1.2.3. The third option shall display "Neutral".

4.1.1.2.4. The fourth option shall display “Agree”.

4.1.1.2.5. The fifth option shall display “Strongly Agree”.

4.1.1.3. The system must randomise the questions to reduce bias and ensure a unique experience for each user.

4.1.1.4. The system must allow users to skip questions and return to them later.

4.1.1.5. The system must display the submit button only after the user finishes all 48 questions.

4.1.2. The system must offer an option for the user to pause and resume the test at a later time.

4.1.2.1. The system must include a resume button to allow the user to continue from their saved progress.

4.1.2.2. The system must save user progress automatically to prevent data loss in case of interruptions.

4.1.3. The system must offer an option for the user to retake the test at any time, with each attempt stored separately.

4.1.3.1. The system must track each test attempt and its corresponding results for the user.

4.1.4. The system must provide a summary of the results immediately after test completion on a “Results” Page.

4.1.4.1. The system will present a bar chart that indicates the most suitable fields.

4.1.4.1.1. The bar chart consists of the following:

4.1.4.1.1.1. Manufacturing.

4.1.4.1.1.2. Business.

4.1.4.1.1.3. Technology.

4.1.4.1.1.4. Healthcare.

4.1.4.1.1.5. Education.

4.1.4.1.1.6. Engineering.

- 4.1.4.1.1.7. Creative Arts.
  - 4.1.4.1.1.8. Public Service.
  - 4.1.4.1.1.9. Sales and Marketing.
  - 4.1.4.1.1.10. Construction.
  - 4.1.4.1.1.11. Hospitality and Tourism.
  - 4.1.4.1.1.12. Agriculture and Natural Resources.
- 4.1.4.2. The system will display the top 3 course recommendations.
- 4.1.4.2.1. The system will display the top 3 most popular career paths for each recommendation
- 4.2. The test results must be stored in the user's profile for future reference.
- 4.2.1. The system must store test results in a database.
    - 4.2.1.1. The system must display an option to view attempt history.
    - 4.2.1.2. The system must allow users to delete their test results.
    - 4.2.1.3. The system must timestamp each test attempt to allow users to view their attempt history.

## 5. Test Result Analysis

- 5.1. The system shall analyse the results of the personality test and academic input.
- 5.1.1. The analysis must identify key traits, strengths, and interests based on the test responses.
    - 5.1.1.1. The system must categorise traits and strengths into defined personality types or profiles.
    - 5.1.1.2. The system must present the analysis in a bar chart.
  - 5.1.2. The system must consider academic performance when analysing results to provide accurate recommendations.

- 5.1.2.1. The system must compare academic performance with test results to identify aligned strengths.
- 5.1.3. The analysis must be repeatable and consistent, providing similar results for similar inputs.
  - 5.1.3.1. The system must ensure the algorithm used for analysis is deterministic and based on consistent rules.
  - 5.1.3.2. The system must provide an option for users to give feedback on the accuracy of the analysis.

## 6. Polytechnic & Diploma Recommendations

- 6.1. The system shall provide course recommendations based on test results and academic input.
  - 6.1.1. Recommendations must be tailored to align with the user's identified interests, strengths, and inputted academic performance.
    - 6.1.1.1. The system must use a matching algorithm to align test results with relevant courses.
    - 6.1.1.2. The system must provide a ranking of recommended courses based on the compatibility of the match.
    - 6.1.1.3. The system must allow users to filter recommendations.
      - 6.1.1.3.1. The system must allow users to filter recommendations by the specific polytechnic.
  - 6.1.2. Each recommendation must include a detailed description.
    - 6.1.2.1. The recommendation must include the course name.
    - 6.1.2.2. The recommendation must include 3 examples of career prospects from the course.
    - 6.1.2.3. The recommendation must include the key skills required for the course.
    - 6.1.2.4. The system must obtain course descriptions from an up-to-date database of polytechnic programs.

- 6.1.2.5. The system must highlight the key skills developed in each course.
  - 6.1.2.6. The system must provide an option for the user to save the recommended course for future perusal.
- 6.2. The system shall offer alternative course recommendations if the user's first choice does not match their strengths or interests.
- 6.2.1. The system must suggest 3 alternative courses related to the user's top choice.
  - 6.2.2. The system must allow users to explore alternative courses in-depth, with the same level of detail as the top recommendations. (refer to 6.1.2)

## 7. Progress Tracking and Feedback

- 7.1. Users shall be able to track their progress through the application.
  - 7.1.1. The system must have a page that displays the user's past test results. (refer to 4.1.3)
  - 7.1.2. The system must have a page that displays course recommendations.
  - 7.1.3. The system must have a page that displays the user's saved courses.
  - 7.1.4. The system must have a page that has a feedback option. (refer to 7.3)
  - 7.1.5. The system must update in real-time as users complete the test or save courses.
- 7.2. The system must allow users to revisit and revise their test results and course recommendations.
  - 7.2.1. The system must store historical test results and recommendations for comparison.
    - 7.2.1.1. The system must timestamp each set of test results and recommendations.
    - 7.2.1.2. The system must allow users to delete old test results if desired.
- 7.3. Users shall be allowed to provide feedback on the application
  - 7.3.1. The feedback will include:

7.3.1.1. Likert Scale for each category

7.3.1.1.1. User Experience

7.3.1.1.2. Test Quality

7.3.1.1.3. Recommendation Accuracy

7.3.1.2. Comment Section

7.3.2. The feedback will be sent from the email associated with the registered account.

## B. Non-Functional Requirements

### 8. Security & Privacy

- 8.1. The system shall ensure the security and privacy of user data.
  - 8.1.1. The system must encrypt all personal particulars and passwords stored in the database.
    - 8.1.1.1. The system must use industry-standard encryption methods for data at rest.
    - 8.1.1.2. The system must ensure data in transit is encrypted using Transport Layer Security (TLS).

### 9. Usability

- 9.1. The system shall be easy to use for users with different levels of technical proficiency.
  - 9.1.1. The user interface must be intuitive and user-friendly, with clear navigation.
    - 9.1.1.1. The system must use consistent design patterns throughout the application.
    - 9.1.1.2. The system must provide tooltips or help icons to explain complex features.
    - 9.1.1.3. The system must ensure that all interactive elements are easily accessible.
    - 9.1.1.4. The system must use simple language and provide examples where necessary to clarify questions.
    - 9.1.1.5. The system must offer an option to review instructions before starting the test.

## 10. Performance

- 10.1. The system shall be responsive and performant under normal usage conditions.
  - 10.1.1. The system must load pages within 3 seconds under normal network conditions.
    - 10.1.1.1. The system must optimize images and media files to reduce page load times.
    - 10.1.1.2. The system must use caching strategies to improve load times for repeat visitors.
    - 10.1.1.3. The system must minimize the use of third-party scripts that could slow down page loading.
    - 10.1.1.4. The system must provide a loading indicator if page content takes longer than 2 seconds to load.
  - 10.1.2. The system shall handle up to 5 concurrent users without significant degradation in performance.
    - 10.1.2.1. The system must use a content delivery network (CDN) to improve performance for users in different regions.
  - 10.1.3. The system must optimize database queries to ensure quick data retrieval.
    - 10.1.3.1. The system must use indexed queries for frequently accessed data.
    - 10.1.3.2. The system must minimize the number of database calls by using efficient query structures.
    - 10.1.3.3. The system must implement database caching for read-heavy operations.

## 11. Scalability

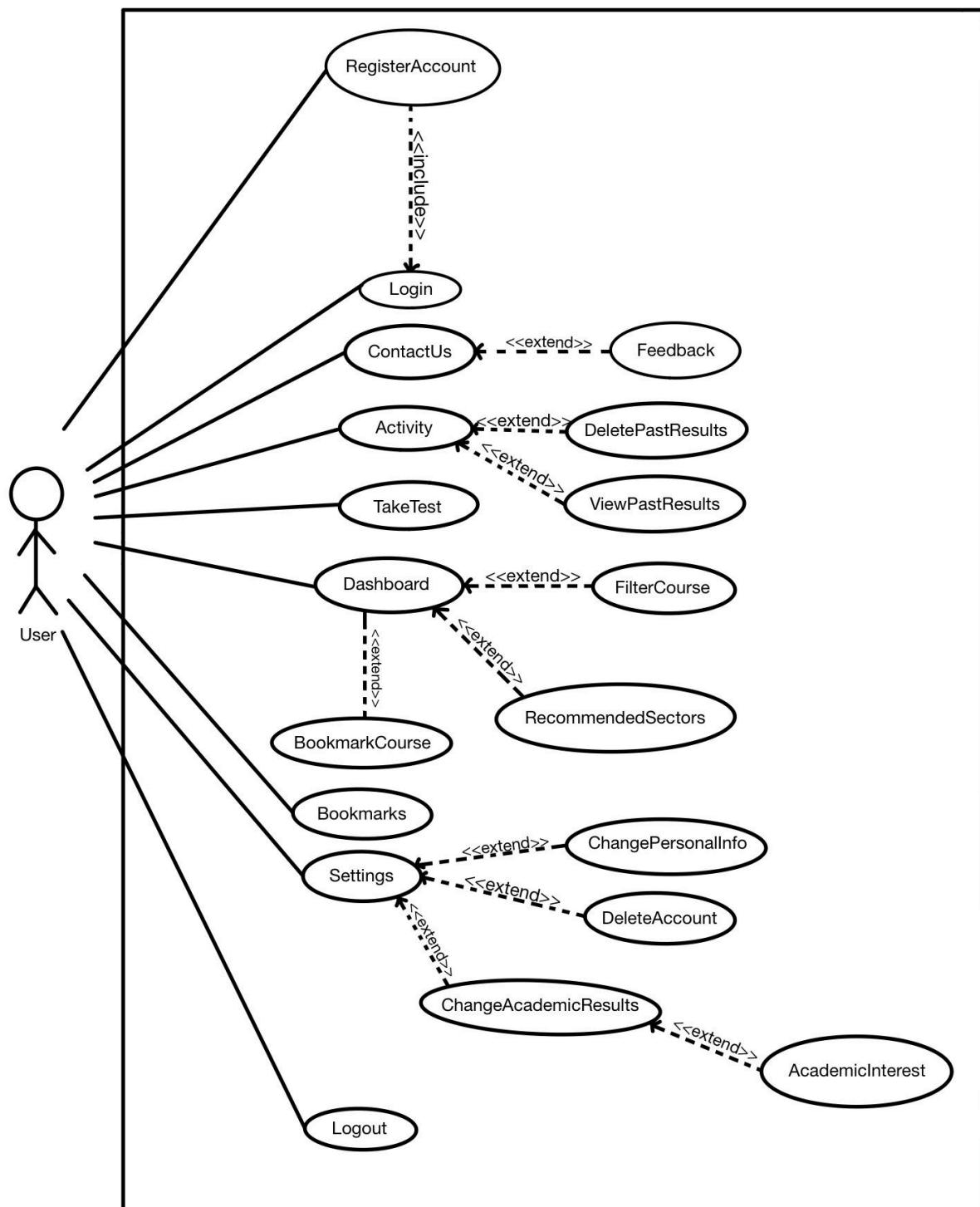
- 11.1. The system shall be scalable to accommodate a growing number of users.
  - 11.1.1. The architecture must support horizontal scaling to handle increased traffic.
    - 11.1.1.1. The system must separate application components to scale them independently.
  - 11.1.2. The system must be able to integrate with cloud services to dynamically scale based on demand.
    - 11.1.2.1. The system must optimize storage and compute resources based on real-time demand analysis.
    - 11.1.2.2. The system must use cloud-native databases to scale data storage and retrieval.
  - 11.1.3. The system must support global distribution to serve users from different geographic regions.
    - 11.1.3.1. The system must use a global CDN to deliver static assets efficiently.

## 2. Data Dictionary

Term	Definition
User	An individual who interacts with the system, creating an account, logging in, and using the features provided.
Account	A digital identity created by a user to access the system's services. It includes information such as email, password, and user profile.
Dashboard	A user interface component where users can view their test results, course recommendations, and other personal data.
Course	A structured set of educational lessons or lectures provided to users, which may include exams, assignments, and interactive content.
Test	An assessment tool used to evaluate a user's knowledge, skills, interests, or personality traits. Tests can have various question formats.
Academic Performance	The measurement of a user's grades, skills, and interests in various academic fields, which can be used to recommend courses or further educational paths.
Recommendation	A suggestion provided to the user, often based on test results and academic performance, aimed at guiding their educational or career choices.
Compulsory Subjects	A subject that a student is required to take and pass to graduate.
Elective Subjects	A subject that a student takes because you want to rather than to fill a particular requirement, although you still get credit for it.

### 3. Initial Use Case Model

#### A. Use Case Diagram



## B. Use Case Descriptions

### I. Account Registration

#### I. Register Account

Use Case ID:	#1-1		
Use Case Name:	RegisterAccount		
Created By:	Lam Yan Yee	Last Updated By:	Lam Yan Yee
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user registers an account using an email / social media account
Preconditions:	The user must already have a valid email / social media account
Postconditions:	There will be a toast message indicating account registration was a success The user will also receive a confirmation email to check the validity of the email
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"><li>1. The user clicks on “Sign Up” on the initial landing page</li><li>2. The user enters their email</li><li>3. The user enters their desired password that meets the minimum security requirement</li><li>4. The user successfully creates an account</li></ol>
Alternative Flows:	The User opts to sign up using their Social Media Credentials instead: <ol style="list-style-type: none"><li>1. The user clicks on Google/Facebook</li><li>2. The user links their Google/Facebook account</li><li>3. (continue to step 3 in the initial flow of events)</li></ol>

Exceptions:	<ul style="list-style-type: none"> <li>• If the user provides an invalid email address, a toast message will appear and the user cannot proceed to register an account.</li> <li>• If the user's password does not meet the minimum security requirement, a toast message will appear and the user cannot proceed to register an account</li> <li>• If the user's Google/Facebook account is invalid, the Google/Facebook third-party API will prompt the user that the account is invalid and they cannot proceed to register an account</li> </ul>
Includes:	<ul style="list-style-type: none"> <li>• Login</li> </ul>
Special Requirements:	The email address has to be valid and the password has to hit the minimum security criteria before the user can create an account
Assumptions:	<p>The user has a pre-existing email OR</p> <p>The user has a pre-existing Google account OR</p> <p>The user has a pre-existing Facebook account</p>
Notes and Issues:	None

## II. Login/Logout

### I. Login

Use Case ID:	#2-1		
Use Case Name:	Login		
Created By:	Lam Yan Yee	Last Updated By:	Lam Yan Yee
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user logs in using an email / social media account
Preconditions:	The user has to have already created an account beforehand. The user is not logged in to the web application

Postconditions:	The user will log into the web application successfully and be redirected to the web application's home page
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user arrives on the initial "Login to Your Account" landing page</li> <li>2. The user keys in their email</li> <li>3. The user keys in their password</li> <li>4. The user arrives at the main home page of the web application</li> </ol>
Alternative Flows:	<ol style="list-style-type: none"> <li>1. The User can click on the "Continue with Google" button and type in their Google Account details</li> </ol> <p>OR</p> <ol style="list-style-type: none"> <li>1. The User can click on the "Continue with Facebook" button and type in their Facebook Account details</li> <li>2. The User arrives at the main home page of the web application</li> </ol>
Exceptions:	<ul style="list-style-type: none"> <li>• In step 2, If the user provides an unregistered email address, a toast message will prompt the user to register an account and the user cannot proceed to log in</li> <li>• If the user's Google/Facebook account is unregistered, a new account will be registered and the user will be able to proceed and arrive at the home page of the web application.</li> </ul>
Includes:	None
Special Requirements:	None
Assumptions:	The user has an existing account stored in the system's database
Notes and Issues:	None

## II. Logout

Use Case ID:	#2-2	
Use Case Name:	Logout	
Created By:	Lam Yan Yee	Last Updated By: Lam Yan Yee

Date Created:	9th September 2024	Date Last Updated:	9th September 2024
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Actor:	User
Description:	The user logs out of the web application
Preconditions:	The user is logged into the web application
Postconditions:	The user will successfully log out of the web application, and be redirected to the initial “Login to Your Account” landing page
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Logout” at the bottom left of the NavBar</li> <li>2. The user is logged out of the web application and arrives at the Initial “Login to Your Account” landing page</li> </ol>
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

### III. Contact Us

#### I. Contact Us

Use Case ID:	#3-1		
Use Case Name:	ContactUs		
Created By:	Dallas Ng Zhi Hao	Last Updated By:	Dallas Ng Zhi Hao
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user can use this feature to send feedback to the web application developers and also find the developers' email address
Preconditions:	The user is logged into the web application.
Postconditions:	The user will be directed to a “Thank you for your feedback” page.
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Contact Us” at the bottom left of the screen</li> <li>2. The system provides the admin’s email address</li> <li>3. The user is able to email the admin regarding any inconveniences</li> </ol>
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

## II. Providing General Feedback

Use Case ID:	#3-2		
Use Case Name:	Feedback		
Created By:	Jerwin Lee Chu Hao	Last Updated By:	Jerwin Lee Chu Hao
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
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Description:	The user can use this feature to send feedback to the web application developers and also find the developers' email address
Preconditions:	The user is logged into the web application.
Postconditions:	The user will be directed to a "Thank you for your feedback" page.
Priority:	Low
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on "Contact Us" at the bottom left of the screen</li> <li>2. The user will be redirected to the feedback page</li> <li>3. The user answers "User Experience" related feedback questions</li> <li>4. The user answers "Test Quality" related feedback questions</li> <li>5. The user answers "Recommendation Accuracy" related feedback questions</li> <li>6. The user keys in any comments at the end</li> <li>7. Feedback will be sent out successfully</li> </ol>
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	The user has feedback to provide
Notes and Issues:	None

## IV. Activity

### I. Activity

Use Case ID:	#4-1	
Use Case Name:	Activity	
Created By:	Dallas Ng Zhi Hao	Last Updated By: Dallas Ng Zhi Hao

Date Created:	9th September 2024	Date Last Updated:	9th September 2024
---------------	--------------------	--------------------	--------------------

Actor:	User
Description:	The user can access their past activity via this feature
Preconditions:	The user is logged into the web application
Postconditions:	None
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Activity” on the NavBar</li> <li>2. The user is directed to the Activity page</li> <li>3. The user can see their past test results/delete their past test results on this page</li> </ol>
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

## II. View Past Test Results

Use Case ID:	#4-2		
Use Case Name:	ViewPastResults		
Created By:	Jerwin Lee Chu Hao	Last Updated By:	Jerwin Lee Chu Hao
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
--------	------

Description:	The user can view their past test results using this feature
Preconditions:	The user must be logged in to the web application.
Postconditions:	None
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Activity” on the nav bar on the left-hand side of the screen</li> <li>2. The user will be redirected to the Activity page</li> <li>3. The user can view their past test results on that page</li> </ol>
Alternative Flows:	None
Exceptions:	If the user has not done a test before, the page will be empty
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

### III. Delete Past Test Results

Use Case ID:	#4-3		
Use Case Name:	DeletePastResults		
Created By:	Jerwin Lee Chu Hao	Last Updated By:	Jerwin Lee Chu Hao
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user can delete their past test results using this feature
Preconditions:	The user must be logged in to the web application
Postconditions:	The result that the user have deleted will not be present in the future

Priority:	Low
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Activity” on the NavBar</li> <li>2. The user clicks on the trashcan icon on the top right of the past test result</li> <li>3. A toast message “Are you sure?” will appear,</li> <li>4. The user clicks on “Delete Quiz”</li> <li>5. The selected past test result will be deleted</li> <li>6. The user will be redirected to the “Activity” page</li> </ol>
Alternative Flows:	<p>In step 3, if the user decides they do not want to delete their account:</p> <ol style="list-style-type: none"> <li>1. Continuing from step 3, The user will click on the “X” on the top right of the toast message</li> <li>2. The user will be redirected to the “Activity” page without any changes to past test results</li> </ol>
Exceptions:	None
Includes:	None
Special Requirements:	The user must have taken a test before to access this feature.
Assumptions:	The user has taken a test before.
Notes and Issues:	None

## V. TakeTest

### I. Undertaking of the Test

Use Case ID:	#5-1		
Use Case Name:	TakeTest		
Created By:	Malcolm Fong Cheng Hong	Last Updated By:	Malcolm Fong Cheng Hong
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user uses the Situational Test which is the main feature of our web application.
Preconditions:	The user must be logged in to the web application.
Postconditions:	The user will be shown a list of Likert Scale questions to answer. Upon Completion, they will be redirected to the results page.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Take a Test” on the left-hand side of the screen,</li> <li>2. The user will be redirected to the test page where they can answer the Likert Scale questions</li> <li>3. The user will be redirected to the results page, which shows them their recommended courses and the industry sectors they are likely suited for</li> </ol>
Alternative Flows:	If the user is taking the test for the first time, they will be able to take the test directly from the dashboard that they are directed to upon logging in for the first time: <ol style="list-style-type: none"> <li>1. The user logs in for the first time</li> <li>2. The user is directed to the Dashboard page</li> <li>3. The user clicks on “Let’s Start”</li> <li>4. The user needs to input their Academic Results</li> <li>5. The user needs to choose their Academic Interest</li> <li>6. Then the user will be able to take the test</li> </ol>
Exceptions:	None
Includes:	None
Special Requirements:	If the user is taking the test for the first time: They need to fill in their academic performance + academic interests.
Assumptions:	None
Notes and Issues:	The user will be notified that they can change their Academic Results and Academic Interests in the settings.

## VI. Dashboard

## I. Dashboard

Use Case ID:	#6-1		
Use Case Name:	Dashboard		
Created By:	Jerwin Lee Chu Hao	Last Updated By:	Jerwin Lee Chu Hao
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	Dashboard
Preconditions:	The user must be logged in to the web application
Postconditions:	None
Priority:	High
Frequency of Use:	Medium
Flow of Events:	<p>The user can select the following few options:</p> <ol style="list-style-type: none"> <li>Recommended courses will be shown once the user has entered the “Dashboard” page</li> <li>If the user clicks on the filter icon, the user will then choose which polytechnic to filter out what course that specific polytechnic offers</li> <li>The user can also bookmark the recommended courses that they like by pressing the bookmark icon on the top right of the recommended course</li> </ol>
Alternative Flows:	<ol style="list-style-type: none"> <li>By Default, The first time the user logs into the web application, they will arrive at the dashboard</li> <li>Also, They will be able to Take a Test from the Dashboard as a First-time user</li> </ol>
Exceptions:	If the user has not taken any test, no recommended course will be shown on the “Dashboard”
Includes:	None
Special Requirements:	None
Assumptions:	The user has already taken a test

Notes and Issues:	None
-------------------	------

## II. Filter Course

Use Case ID:	#6-2		
Use Case Name:	FilterCourse		
Created By:	Jerwin Lee Chu Hao	Last Updated By:	Jerwin Lee Chu Hao
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	FilterCourse
Preconditions:	The user must be logged in to the web application
Postconditions:	The system will filter accordingly to the polytechnic of the user's choice
Priority:	High
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on the filter icon, the user will then choose which polytechnic to filter out what course that specific polytechnic offers</li> <li>2. The user will be able to see the recommended courses according to the filter</li> </ol>
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	The user must have taken a test before accessing this feature
Assumptions:	The user wants to filter the courses by polytechnics
Notes and Issues:	None

### III. Bookmark Courses

Use Case ID:	#6-3		
Use Case Name:	BookmarkCourses		
Created By:	Jerwin Lee Chu Hao	Last Updated By:	Jerwin Lee Chu Hao
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user can bookmark courses that they are interested in
Preconditions:	The user must be logged in to the web application
Postconditions:	None
Priority:	High
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Dashboard” on the NavBar</li> <li>2. Once on the “DashBoard’ page, the user can see the recommended course that the system has suggested</li> <li>3. Then, the user can bookmark a course by pressing the bookmark icon on the top right of the recommended course</li> </ol>
Alternative Flows:	None
Exceptions:	If the user does not do any test, no recommended course will appear and the user will not be able to bookmark it.
Includes:	None
Special Requirements:	The user must have taken a test before, to access this feature.
Assumptions:	None
Notes and Issues:	None

## VII. Bookmarks

Use Case ID:	#7-1		
Use Case Name:	Bookmarks		
Created By:	Dallas Ng Zhi Hao	Last Updated By:	Dallas Ng Zhi Hao
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user's saved recommended courses will appear here
Preconditions:	The user is logged into the web application
Postconditions:	None
Priority:	High
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"><li>1. The user clicks on "Bookmarks" on the nav bar</li><li>2. The user is directed to the Bookmarks page</li><li>3. The user can access the courses that they have bookmarked</li></ol>
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

## VIII. Settings

## I. Settings

Use Case ID:	#8-1		
Use Case Name:	Settings		
Created By:	Yeo, Ruizhi Carwyn	Last Updated By:	Yeo, Ruizhi Carwyn
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user can either delete their account, change their particulars (Profile Pic & Password), or update their Academic Results and Interests.
Preconditions:	The user has to be logged into the web application.
Postconditions:	The user can choose to delete their account, change personal particulars, or change Academic Results and Interest.
Priority:	High
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Settings” on the sidebar on the right-hand side of the screen</li> <li>2. If the user clicks on “Deletion of Account”, the user can delete their account</li> <li>3. If the user clicks on “Personal Info”, the user can change their password or profile picture</li> <li>4. If the user clicks on “Academic Results and Interest”, the user can edit their Academic result or Interest</li> </ol>
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None

Notes and Issues:	None
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## II. Deletion of Account

Use Case ID:	#8-2		
Use Case Name:	AccountDeletion		
Created By:	Yeo, Ruizhi Carwyn	Last Updated By:	Yeo, Ruizhi Carwyn
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user will be able to delete their account via this option.
Preconditions:	The user has to be logged in to the web application.
Postconditions:	The user's account information will be erased and returned to the initial log-in page.
Priority:	Medium
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Settings”</li> <li>2. The user clicks “Delete Account”</li> <li>3. A toast message will ask the user “Are you sure?”</li> <li>4. The user clicks “Delete Account”</li> <li>5. The user’s information is erased from the system</li> <li>6. The system returns the user to the initial starting log-in page</li> </ol>
Alternative Flows:	<p>In step 4, if the user does not want to delete their account:</p> <ol style="list-style-type: none"> <li>1. The user will click on the “X” on the top right of the toast message</li> <li>2. The system will redirect the user back to the settings page without the user account being deleted</li> </ol>
Exceptions:	None
Includes:	None

Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

### III. Change Password

Use Case ID:	#8-3		
Use Case Name:	ChangePassword		
Created By:	Yeo, Ruizhi Carwyn	Last Updated By:	Yeo, Ruizhi Carwyn
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user can change their password using this feature.
Preconditions:	The user has to be logged in to the web application.
Postconditions:	The user's password will be updated to the new password the user has just set.
Priority:	High
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on "Settings"</li> <li>2. The user clicks on "Personal info"</li> <li>3. The user clicks on 'Change password'</li> <li>4. The user inputs a valid new password</li> <li>5. A toast message will appear "Password has been changed successfully"</li> <li>6. The user will be redirected to the "Settings" page</li> </ol>
Alternative Flows:	None
Exceptions:	If the user types in a password that does not meet the password requirements, it will prompt the user to enter another password
Includes:	None

Special Requirements:	The password keyed in has to meet the minimum security requirement of 8 characters, consisting of 1 uppercase letter, 1 lowercase letter, and 1 symbol
Assumptions:	None
Notes and Issues:	None

#### IV. Input of Academic Performances (Subjects & Grades)

Use Case ID:	#8-4		
Use Case Name:	ChangeAcademicResults		
Created By:	Malcolm Fong Cheng Hong	Last Updated By:	Malcolm Fong Cheng Hong
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user will input their new academic grades into the system
Preconditions:	The user must be logged into the web application.
Postconditions:	None
Priority:	High
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on “Change Academic Results and Interest”</li> <li>2. The user will then update respective grades for the subjects that the user has scored differently.</li> </ol>
Alternative Flows:	None
Exceptions:	At step 2, If the user keys in a grade that is not valid i.e. (Not A1 - F9), then there will be a toast error message prompting the user to enter a letter grade (A1 - F9).
Includes:	None

Special Requirements:	None
Assumptions:	The user is a student and going to take 'O' levels.
Notes and Issues:	None

## V. Input of Academic Interests

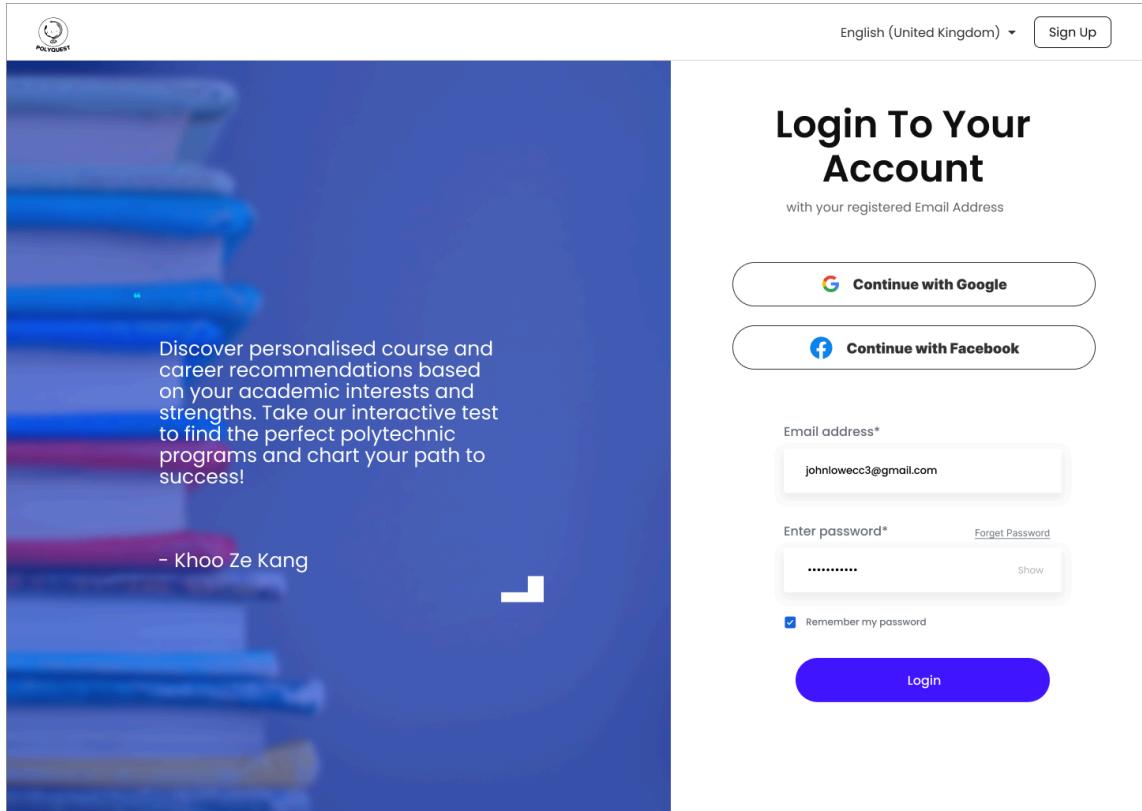
Use Case ID:	#8-5		
Use Case Name:	AcademicInterests		
Created By:	Malcolm Fong Cheng Hong	Last Updated By:	Malcolm Fong Cheng Hong
Date Created:	9th September 2024	Date Last Updated:	9th September 2024

Actor:	User
Description:	The user will input their academic interests into the system.
Preconditions:	The user must be logged in to the web application.
Postconditions:	The system will save their academic interests in the database.
Priority:	High
Frequency of Use:	Low
Flow of Events:	1. The user will choose their academic interests by clicking on the academic subjects they resonate strongly with
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

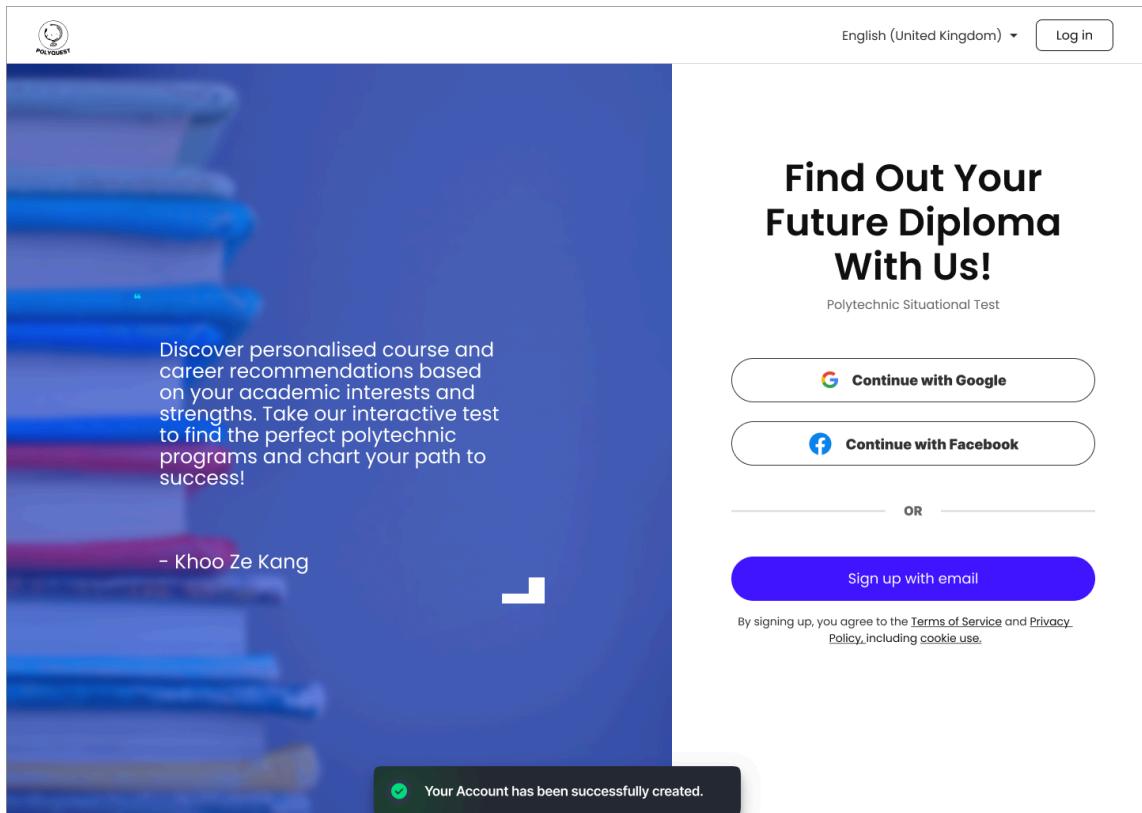


## 4. UI Mockups

### 4.1 Login/Sign Up System



The login page features a large background image of stacked books in shades of blue and purple. At the top right, there's a language dropdown set to "English (United Kingdom)" and a "Sign Up" button. The main title "Login To Your Account" is centered above a subtitle "with your registered Email Address". Below this are two social sign-in buttons: "Continue with Google" and "Continue with Facebook". The form area contains fields for "Email address\*" with "johnlowecc3@gmail.com" entered, "Enter password\*", and a "Forgot Password" link. A "Remember my password" checkbox is checked. A prominent blue "Login" button is at the bottom.



The sign-up page has a similar layout to the login page, with a book-themed background. It includes a "Log in" button instead of a "Sign Up" button. The main title is "Find Out Your Future Diploma With Us!" followed by the subtitle "Polytechnic Situational Test". It features social sign-in buttons for Google and Facebook, a "Sign up with email" button, and a note about agreeing to terms and privacy policies. A success message at the bottom states "Your Account has been successfully created." with a checkmark icon.



POLYQUEST

English (United Kingdom) ▾ Sign Up

## Login To Your Account

with your registered Email Address

Discover personalised course and career recommendations based on your academic interests and strengths. Take our interactive test to find the perfect polytechnic programs and chart your path to success!

- Khoo Ze Kang

[Continue with Google](#)

[Continue with Facebook](#)

Email address\*

johnlowecc3@gmail.com

Enter password\* [Forgot Password](#)

\*\*\*\*\* [Show](#)

Remember my password

[Login](#)

Your email is invalid  
Please try another email address



POLYQUEST

English (United Kingdom) ▾ Sign Up

## Login To Your Account

with your registered Email Address

Discover personalised course and career recommendations based on your academic interests and strengths. Take our interactive test to find the perfect polytechnic programs and chart your path to success!

- Khoo Ze Kang

[Continue with Google](#)

[Continue with Facebook](#)

Email address\*

johnlowecc3@gmail.com

Enter password\* [Forgot Password](#)

\*\*\*\*\* [Show](#)

Remember my password

[Login](#)

Please try again in 30 mins.  
You've tried to sign in too many times



POLYQUEST

English (United Kingdom) ▾ Sign Up

## Login To Your Account

with your registered Email Address

Discover personalised course and career recommendations based on your academic interests and strengths. Take our interactive test to find the perfect polytechnic programs and chart your path to success!

- Khoo Ze Kang

[Continue with Google](#)

[Continue with Facebook](#)

Email address\*

johnlowecc3@gmail.com

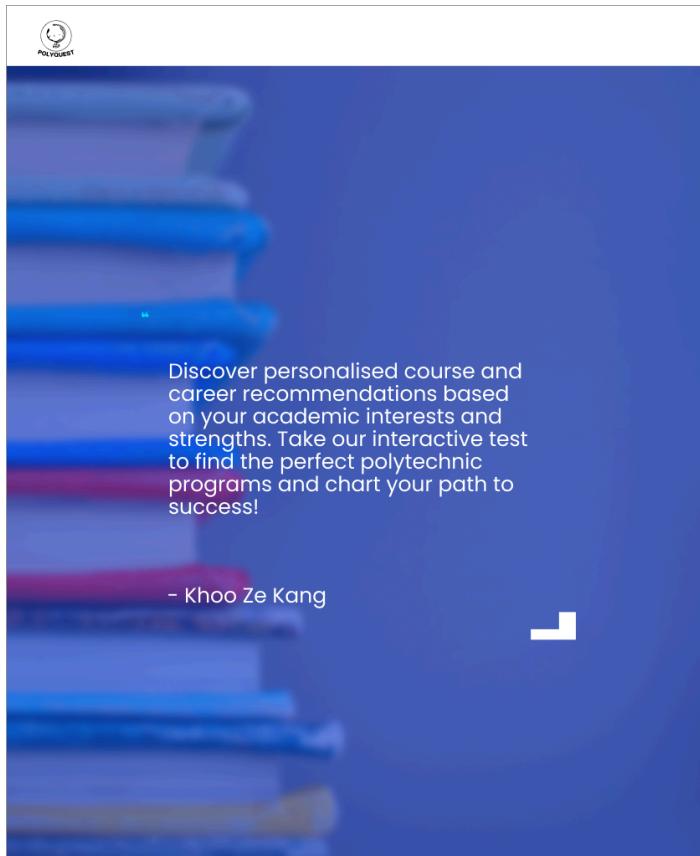
Enter password\* [Forgot Password](#)

..... [Show](#)

Remember my password

[Login](#)

× Login has failed.  
Your email or password is incorrect



POLYQUEST

English (United Kingdom) ▾ Sign Up

## Login To Your Account

with your registered Email Address

Discover personalised course and career recommendations based on your academic interests and strengths. Take our interactive test to find the perfect polytechnic programs and chart your path to success!

- Khoo Ze Kang

[Continue with Google](#)

[Continue with Facebook](#)

Email address\*

johnlowecc3@gmail.com

Enter password\* [Forgot Password](#)

..... [Show](#)

Remember my password

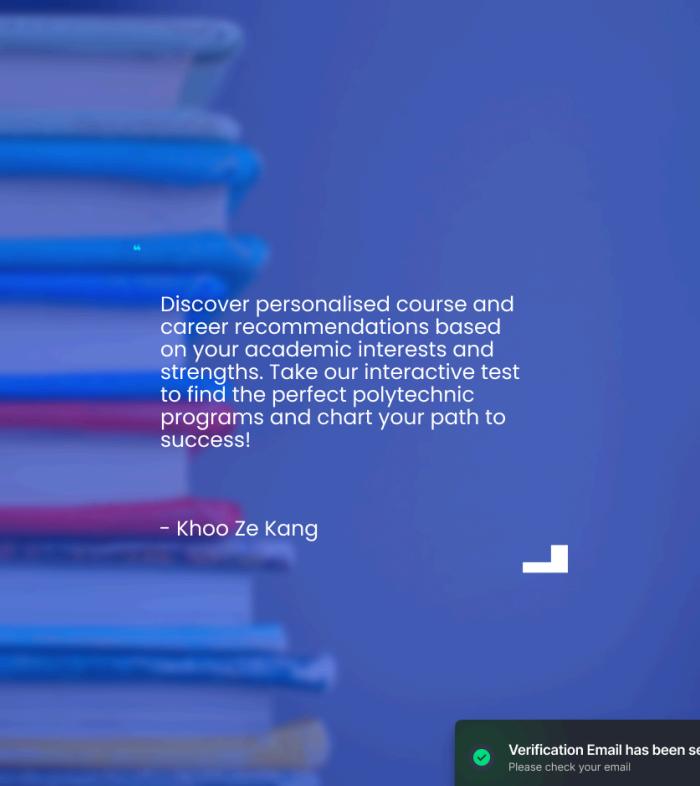
[Login](#)

✓ Log In Successfully



English (United Kingdom) ▾

Sign Up



Discover personalised course and career recommendations based on your academic interests and strengths. Take our interactive test to find the perfect polytechnic programs and chart your path to success!

- Khoo Ze Kang

## Forgot Password

Use your registered Email Address

Email address\*

johnlowecc3@gmail.com

Send Verification Link

 Verification Email has been sent.  
Please check your email

POLYQUEST

English (United Kingdom) ▾ Log in

## Create an account

Already have an account? [Log in](#)

First name  Last name

Email address

Password  Confirm your password

Use 8 or more characters with a mix of uppercase & lowercase letters, numbers & symbols

Show password

[Log in instead](#) [Create an account](#)



**POLYQUEST**

 Confirmation Email has been sent

POLYQUEST

English (United Kingdom) ▾ Log in

## Create an account

Already have an account? [Log in](#)

First name  Last name

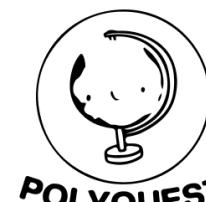
Email address

Password  Confirm your password

Use 8 or more characters with a mix of uppercase & lowercase letters, numbers & symbols

Show password

[Log in instead](#) [Create an account](#)



**POLYQUEST**

 Please choose another password.  
Password has not fulfilled the minimum security requirement

## 4.2 Dashboard

Hi Ze Kang Khoo,

Welcome to PolyQuest!

Find the best course for you

48 Questions (~5 minutes)

Let's Start →

Not ready for the quiz? Check out the highest demand courses today

Financial Informatics  
Nanyang Polytechnic

EL0280 Career Prospects Intake  
10 643 76

View more →

Financial Informatics  
Nanyang Polytechnic

EL0282 Career Prospects Intake  
10 643 76

View more →

Financial Informatics  
Nanyang Polytechnic

EL0282 Career Prospects Intake  
10 643 76

View more →

Financial Informatics  
Nanyang Polytechnic

EL0283 Career Prospects Intake  
10 643 76

View more →

?

Contact Us

Log Out

Ze Kang Khoo

Hey looks like you have not taken a test yet!

Take a Quiz Now!

Dashboard

Bookmarks

Activity

Settings

Hi Ze Kang Khoo,

Welcome to PolyQuest!

Find the best course for you

48 Questions (~5 minutes)

Let's Start →

Not ready for the quiz? Check out the highest demand courses today

Financial Informatics  
Nanyang Polytechnic

EL0280 Career Prospects Intake  
10 643 76

View more →

Financial Informatics  
Nanyang Polytechnic

EL0282 Career Prospects Intake  
10 643 76

View more →

Financial Informatics  
Nanyang Polytechnic

EL0282 Career Prospects Intake  
10 643 76

View more →

Financial Informatics  
Nanyang Polytechnic

EL0283 Career Prospects Intake  
10 643 76

View more →

?

Contact Us

Log Out

Ze Kang Khoo

You have a existing quiz!

Resume Your Quiz

Dashboard

Bookmarks

Activity

Settings



POLYQUEST

© Nanyang Polytechnic

## C35 Financial Informatics

Gain skills mastery in app development, blockchain, and data analytics, while sharpening your business acumen and financial knowledge. Ride the waves of the fintech revolution.

Plus, earn industry-recognised certifications from organisations such as Oracle Academy and Google Cloud.

[Career Prospects](#) [Key Skills Learned](#)

## Career Prospects

Based on Nanyang Polytechnic Page

- Business analyst
- E-commerce consultant
- Fintech specialist
- Tech innovator
- and more

[Link To School's Page](#)



POLYQUEST

© Nanyang Polytechnic

## C35 Financial Informatics

Gain skills mastery in app development, blockchain, and data analytics, while sharpening your business acumen and financial knowledge. Ride the waves of the fintech revolution.

Plus, earn industry-recognised certifications from organisations such as Oracle Academy and Google Cloud.

[Career Prospects](#) [Key Skills Learned](#)

## Key Skills Learned

Based on Nanyang Polytechnic Page

- Web Development
- UX Design in Web Development
- Cybersecurity Technologies & Ethics
- Applied Mathematics In Computing
- And More

[Link To School's Page](#)



POLYQUEST

Temasek Polytechnic

## T10 Business

Our course offers a dynamic and future-oriented curriculum designed to cater to the evolving demands of industries in Singapore and the broader region.

Through personalised learning experiences, we equip students with multi-disciplinary and transferable skill sets necessary to excel in a rapidly changing workforce and thrive in diverse roles and industries.

---

[Link To School's Page](#)

X

Career Prospects Key Skills Learned

## Career Prospects

Based on Temasek Polytechnic Page

- Accountant
- Product Innovation
- Data Analyst
- Business Analyst



POLYQUEST

Temasek Polytechnic

## T10 Business

Our course offers a dynamic and future-oriented curriculum designed to cater to the evolving demands of industries in Singapore and the broader region.

Through personalised learning experiences, we equip students with multi-disciplinary and transferable skill sets necessary to excel in a rapidly changing workforce and thrive in diverse roles and industries.

---

[Link To School's Page](#)

X

Career Prospects Key Skills Learned

## Key Skills Learned

Based on Temasek Polytechnic Page

- Accounting
- Data Analytics
- Human Resource
- Digital Marketing



POLYQUEST

© Ngee Ann Polytechnic

## N65 Aerospace Engineering

Growing up, were you fascinated with how a heavy machine can fly? Do you ever imagine yourself working on the next generation of aircraft? Then come on board the Diploma in Aerospace Engineering (AEG).

As global travel resumes, the demand for aerospace professionals in the industry is set to soar. With this broad-based diploma, you will gain a strong engineering foundation and discover how you can play a role in this fast-growing sector!

Career Prospects Key Skills Learned

### Career Prospects

Based on Ngee Ann Polytechnic Page

- Quality Engineer
- Technical Service Engineer
- Workshop Engineer

[Link To School's Page](#)



POLYQUEST

© Ngee Ann Polytechnic

## N65 Aerospace Engineering

Growing up, were you fascinated with how a heavy machine can fly? Do you ever imagine yourself working on the next generation of aircraft? Then come on board the Diploma in Aerospace Engineering (AEG).

As global travel resumes, the demand for aerospace professionals in the industry is set to soar. With this broad-based diploma, you will gain a strong engineering foundation and discover how you can play a role in this fast-growing sector!

Career Prospects Key Skills Learned

### Key Skills Learned

Based on Ngee Ann Polytechnic Page

- Maintenance, Repair and Overhaul (MRO)
- Data Analytics
- Mechanical Engineering Fundamentals
- Electrical Engineering Fundamentals

[Link To School's Page](#)

## 4.3 Bookmarks

The screenshot shows the PolyQuest dashboard for user Ze Kang Khoo. The top navigation bar includes a profile picture, the name "Ze Kang Khoo", a search bar, and a "Dashboard" button. The main content area features a welcome message "Welcome to PolyQuest!" and a section titled "Check Out What You Last Saved". Three course cards are displayed, each representing "Financial Informatics" from Nanyang Polytechnic. Each card includes a blue bookmark icon, the course name, the institution, and three numerical values: 10, 643, and 76. Below each card is a "View more" button with a right-pointing arrow. At the bottom left, there are links for "Contact Us" and "Log Out".

The screenshot shows the PolyQuest dashboard for user Ze Kang Khoo. The top navigation bar includes a profile picture, the name "Ze Kang Khoo", a search bar, and a "Dashboard" button. The main content area features a welcome message "Welcome to PolyQuest!" and a section titled "You Can Bookmark Any Courses You Like". Below this, there is a single course card for "Financial Informatics" from Nanyang Polytechnic, featuring a blue bookmark icon, the course name, the institution, and the same three numerical values: 10, 643, and 76. At the bottom left, there are links for "Contact Us" and "Log Out".

## 4.4 Activity

The screenshot shows the PolyQuest dashboard for user Ze Kang Khoo. At the top right, there's a search bar labeled "Search for courses". On the left, a sidebar menu includes "Dashboard", "Bookmarks", "Activity" (which is highlighted in blue), "Settings", and a "New Test" button. The main content area features two cards: one for a "Technology" quiz taken on 1 September 2024 and another for an "Engineering" quiz taken on 29 August 2024. Each card displays the quiz title, date, a wavy progress bar icon, and a trash can icon for deletion. Below each card, there's a section titled "Recommended courses" with three items: "Financial Informatics" from Nanyang Polytechnic, "Business" from Temasek Polytechnic, and "Aerospace Engineering" from Ngee Ann Polytechnic, each with a "View more" link. At the bottom left of the dashboard are links for "Contact Us" and "Log Out".

This screenshot shows the same PolyQuest dashboard as above, but with a modal dialog box in the center. The dialog is titled "Delete Quiz" and contains the question "Are You Sure?". It explains that removing the quiz will take 4-5 days. A red "Delete Quiz" button at the bottom right of the dialog is outlined in red. The rest of the dashboard and sidebar are visible in the background.



Ze Kang Khoo

Dashboard

Bookmarks

Activity

Settings

New Test

Hi Ze Kang Khoo,

## Welcome to PolyQuest!

Search for courses

Start Your First Test Now!

Contact Us

Log Out

## 4.5 Settings

The screenshots show the PolyQuest mobile application interface. The top screenshot is in light mode and the bottom one is in dark mode. Both screens feature a header with the user's name "Ze Kang Khoo" and a "Search for courses" bar. The main content area displays a welcome message "Welcome to PolyQuest!" and three navigation options: "Personal Info", "Academic Results & Interests", and "Delete Account". A sidebar on the left contains links for "Dashboard", "Bookmarks", "Activity", and "Settings". The "Settings" link is highlighted with a blue background. At the bottom of both screens are "Contact Us" and "Log Out" buttons.

Hi Ze Kang Khoo,

Welcome to PolyQuest!

Search for courses

Hey looks like you have not taken a test yet!

Take a Test Now!

Dashboard

Bookmarks

Activity

Settings

?

Contact Us

Log Out

Personal Info

Provide personal information and update academic results

Academic Results & Interests

Update your password and secure your account

Delete Account

You have the option to delete your account any time you want

?

Contact Us

Log Out

Personal info

Name  
Ze Kang Khoo

Email address  
iamkhoo@gmail.com

Verified

The screenshot shows the PolyQuest application interface. At the top, there is a navigation bar with a user profile picture and the name "Ze Kang Khoo". Below the navigation bar, a banner says "Welcome to PolyQuest!" and encourages users to "Take a Test Now!". On the left side, there is a sidebar with links for Dashboard, Bookmarks, Activity, and Settings. The main content area has three cards: "Personal Info", "Academic Results & Interests", and "Delete Account". The "Academic Results & Interests" card is currently selected and displays a "Password" field with a "Change" link, and an "Academic Result" section with an "Edit" link. At the bottom of the screen, there are links for Contact Us and Log Out.

Hi Ze Kang Khoo,

Welcome to PolyQuest!

Search for courses

Hey looks like you have not taken a test yet!

Take a Test Now!

Dashboard

Bookmarks

Activity

Settings

?

Contact Us

Log Out

Personal Info

Provide personal information and update academic results

Academic Results & Interests

Update your password and secure your account

Delete Account

You have the option to delete your account any time you want

Settings > Security

Academic Result & Interest

Password

\*\*\*\*\*

Change

Academic Result

Edit

Edit your academic results anytime

Hi Ze Kang Khoo,

Welcome to PolyQuest!

Hey looks like you have not taken a test yet!

Take a Test Now!

Dashboard

Bookmarks

Activity

Settings

Contact Us

Log Out

Search for courses

Personal Info

Provide personal information and update academic results

Academic Results & Interests

Update your password and secure

Delete Account

You have the option to delete your account any time you want

Settings > Security

Academic Result & Interest

Password

\*\*\*\*\*

Change

Academic Result

Edit

Edit your academic results anytime

>Password Changed Successfully

Hi Ze Kang Khoo,

Welcome to PolyQuest!

Hey looks like you have not taken a test yet!

Take a Test Now!

Dashboard

Bookmarks

Activity

Settings

Contact Us

Log Out

Search for courses

Personal Info

Provide personal information and update academic results

Academic Results & Interests

Update your password and secure

Delete Account

You have the option to delete your account any time you want

Settings > Security

Academic Result & Interest

Password

\*\*\*\*\*

Change

Academic Result

Save

English	A1
Elementary Mathematics	A2
Additional Mathematics	A2
Combined Humanities (Social Studies & History)	A1
Physics	A2
Chemistry	A2
Chinese	A2

## 4.6 Contact Us

Hi Ze Kang Khoo,

### Welcome to PolyQuest!

**Share your feedback**  
We value your opinions, take a little time to evaluate us.

User Experience      1  
Test Quality      2  
Recommendation Accuracy      3  
Overall Satisfaction & Comments

How easy was it to navigate the website?

Bad      Not good      Meh      Very good      Excellent

How would you rate the design and layout of the website?

Bad      Not good      Good      Very good      Excellent

?

Contact Us

Log Out

Email: rocky@ntu.edu.com.sg

Hi Ze Kang Khoo,

### Welcome to PolyQuest!

**Share your feedback**  
We value your opinions, take a little time to evaluate us.

User Experience      1  
Test Quality      2  
Recommendation Accuracy      3  
Overall Satisfaction & Comments

How clear were the questions in the situational test?

Bad      Not good      Good      Very good      Excellent

How relevant were the test questions to your personal interests and academic background?

Bad      Not good      Good      Very good      Excellent

?

Contact Us

Log Out

Email: rocky@ntu.edu.com.sg



Ze Kang Khoo

Dashboard

Bookmarks

Activity

Settings

New Test

Hi Ze Kang Khoo,

## Welcome to PolyQuest!

### Share your feedback

We value your opinions, take a little time to evaluate us.

User Experience

1

Test Quality

2

Recommendation Accuracy

3

Overall Satisfaction & Comments



How accurate was the recommended polytechnic course based on your results?



How useful do you find the course recommendation for your future academic or career plans?



? Contact Us

Log Out

Email: rocky@ntu.edu.com.sg



Ze Kang Khoo

Dashboard

Bookmarks

Activity

Settings

New Test

? Contact Us

Log Out

Hi Ze Kang Khoo,

## Welcome to PolyQuest!

### Share your feedback

We value your opinions, take a little time to evaluate us.

User Experience

1

Test Quality

2

Recommendation Accuracy

3

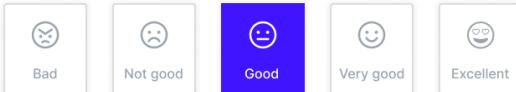
Overall Satisfaction & Comments



#### Would you recommend this website to others?



#### Would you recommend this website to others?



#### Any other comments

Please let us know your feedback so we can make this platform better!



Ze Kang Khoo

Dashboard

Bookmarks

Activity

Settings

New Test

Hi Ze Kang Khoo,

## Welcome to PolyQuest!

### Thank you for your feedback!

Thank you for taking the time to share your valuable feedback! We greatly appreciate it and carefully consider each response to improve our service.

## 4.6 Academic Results

 Ze Kang Khoo

You're taking the quiz

-  Dashboard
-  Bookmarks
-  Activity
-  Settings

[Contact Us](#)

[Log Out](#)

**Before you start, we need your academic results for the best accuracy!**

1 — 2 — 3 — 4 — 5

**Please key in your subjects and results**

English	A1
Elementary Mathematics	A2
Combined Humanities (Social Studies & History)	A1
Physics	A1
Chemistry	A2
Chinese	B3
Add. Mathematics	A1

**Click on your interest**

**Engineering**   **Business**   **Mathematics**

**Art**   **Coding**

[Next Page](#)

## 4.7 Test

Ze Kang Khoo

You're taking the quiz

Dashboard

Bookmarks

Activity

Settings

Contact Us

Log Out

Back to academic results

Next Page

### Take a quiz to find out more about yourself

1. How much do you enjoy tasks that involve problem-solving with machines or tools?

Strongly Disagree Disagree Neutral Agree Strongly Agree

2. How much do you enjoy making decisions that involve risk and reward?

Strongly Disagree Disagree Neutral Agree Strongly Agree

3. How much do you enjoy solving puzzles or problems using logic and reasoning?

Strongly Disagree Disagree Neutral Agree Strongly Agree

4. How much do you enjoy working on tasks where people rely on your knowledge to improve their well-being?

Strongly Disagree Disagree Neutral Agree Strongly Agree

5. How much do you enjoy explaining complex topics in a way that others can easily understand?

Strongly Disagree Disagree Neutral Agree Strongly Agree

6. How much do you enjoy working with numbers and analysing data to make decisions?

Strongly Disagree Disagree Neutral Agree Strongly Agree

7. How much do you enjoy creating memorable experiences for others?

Strongly Disagree Disagree Neutral Agree Strongly Agree

8. How much do you enjoy helping others and making a positive impact on your community?

Strongly Disagree Disagree Neutral Agree Strongly Agree

9. How much do you enjoy working on tasks that involve building or repairing things?

Strongly Disagree Disagree Neutral Agree Strongly Agree

10. How much do you enjoy expressing yourself creatively through different mediums?

Strongly Disagree Disagree Neutral Agree Strongly Agree

11. How much do you enjoy working to maintain order and enforce rules or laws?

Strongly Disagree Disagree Neutral Agree Strongly Agree

12. How much do you enjoy working outdoors and being in nature?

Strongly Disagree Disagree Neutral Agree Strongly Agree

[Back to academic results](#)[Next Page](#)

## Take a quiz to find out more about yourself

1 2 3 4 5

2. I enjoy making decisions that involve risk and reward

Strongly Disagree  Disagree  Neutral  Agree  Strongly Agree

3. I enjoy solving puzzles or problems using logic and reasoning

Strongly Disagree  Disagree  Neutral  Agree  Strongly Agree

4. I enjoy working on tasks where people rely on your knowledge to improve their well-being

Strongly Disagree  Disagree  Neutral  Agree  Strongly Agree

5. I enjoy working to maintain order and enforce rules or laws

Strongly Disagree  Disagree  Neutral  Agree  Strongly Agree

6. I enjoy working outdoors and being in nature

Strongly Disagree  Disagree  Neutral  Agree  Strongly Agree



Ze Kang Khoo

You're taking the quiz

Dashboard

Bookmarks

Activity

Settings

Previous Page

Submit

## Take a quiz to find out more about yourself

5

1. How much do you enjoy tasks that involve problem-solving with machines or tools?

Strongly Disagree Disagree Neutral Agree Strongly Agree

2. How much do you enjoy making decisions that involve risk and reward?

Strongly Disagree Disagree Neutral Agree Strongly Agree

3. How much do you enjoy solving puzzles or problems using logic and reasoning?

Strongly Disagree Disagree Neutral Agree Strongly Agree

4. How much do you enjoy working on tasks where people rely on your knowledge to improve their well-being?

Strongly Disagree Disagree Neutral Agree Strongly Agree

5. How much do you enjoy explaining complex topics in a way that others can easily understand?

Strongly Disagree Disagree Neutral Agree Strongly Agree

6. How much do you enjoy working with numbers and analysing data to make decisions?

Strongly Disagree Disagree Neutral Agree Strongly Agree

7. How much do you enjoy creating memorable experiences for others?

Strongly Disagree Disagree Neutral Agree Strongly Agree

8. How much do you enjoy helping others and making a positive impact on your community?

Strongly Disagree Disagree Neutral Agree Strongly Agree

9. How much do you enjoy working on tasks that involve building or repairing things?

Strongly Disagree Disagree Neutral Agree Strongly Agree

10. How much do you enjoy expressing yourself creatively through different mediums?

Strongly Disagree Disagree Neutral Agree Strongly Agree

11. How much do you enjoy working to maintain order and enforce rules or laws?

Strongly Disagree Disagree Neutral Agree Strongly Agree

12. How much do you enjoy working outdoors and being in nature?

[Back to academic results](#)[Next Page](#)

## Take a quiz to find out more about yourself

—  —  —  — **5**

2. I enjoy making decisions that involve risk and reward

Strongly Disagree     Disagree     Neutral     Agree     Strongly Agree

3. I enjoy solving puzzles or problems using logic and reasoning

Strongly Disagree     Disagree     Neutral     Agree     Strongly Agree

4. I enjoy working on tasks where people rely on your knowledge to improve their well-being

Strongly Disagree     Disagree     Neutral     Agree     Strongly Agree

5. I enjoy working to maintain order and enforce rules or laws

Strongly Disagree     Disagree     Neutral     Agree     Strongly Agree

6. I enjoy working outdoors and being in nature

Strongly Disagree     Disagree     Neutral     Agree     Strongly Agree

## 4.8 Results

 Ze Kang Khoo

[Dashboard](#)

[Bookmarks](#)

[Activity](#)

[Settings](#)

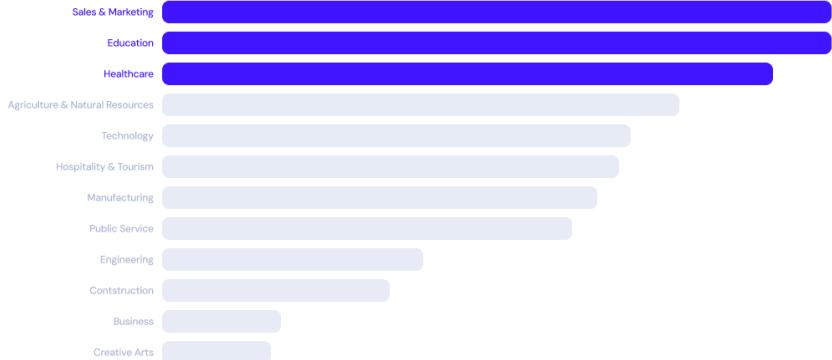
[New Test](#)

[Contact Us](#)

[Log Out](#)

### Results

**Here are the sectors you are likely suited for**



Sector	Approximate Suitability Score
Sales & Marketing	Very High
Education	Very High
Healthcare	Very High
Agriculture & Natural Resources	Medium-High
Technology	Medium-High
Hospitality & Tourism	Medium-High
Manufacturing	Medium
Public Service	Medium
Engineering	Medium-Low
Construction	Medium-Low
Business	Low
Creative Arts	Very Low

**Here are the courses we recommend**



[View more →](#)



[View more →](#)



[View more →](#)



[View more →](#)



[View more →](#)



[View more →](#)



[View more →](#)



[View more →](#)