

**NANYANG  
TECHNOLOGICAL  
UNIVERSITY**  

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**SINGAPORE**

## **CZ3003 Software System Analysis & Design**

### **Lab 3 Deliverable: Black Box and White Box Testing**

#### **Good Game Well Played (GGWP)**

**SS2**

**Leroy Tang Zi Wei**

**Alson Kong**

**Karen Wong**

**Lim Wei Cong**

**Sam Jian Shen**

**Cole Ting-Chun Kuo**

**Zane Ho**

**Norman Fung**

**Jing Herng Pow**

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# Black Box Testing

## Register

Test ID	Scenario	Expected Result	Actual Result
1	Valid Username Valid Password Valid Email	The user will be able to create an account successfully.	The user will be able to create an account successfully.
2	Invalid Username Valid Password Valid Email	The user will be prompted to re-enter a valid username and the account creation will be unsuccessful.	The user will be prompted to re-enter a valid username and the account creation will be unsuccessful.
3	Valid Username Invalid Password Valid Email	The user will be prompted to re-enter a valid password and the account creation will be unsuccessful.	The user will be prompted to re-enter a valid password and the account creation will be unsuccessful.
4	Valid Username Valid Password Invalid Email	The user will be prompted to re-enter a valid email. The account creation will be unsuccessful.	The user will be prompted to re-enter a valid email. The account creation will be unsuccessful.
5	Invalid Username Invalid Password Valid Email	The user will be prompted to re-enter a valid username and password. The account creation will be unsuccessful.	The user will be prompted to re-enter a valid username and password. The account creation will be unsuccessful.
6	Valid Username Invalid Password Invalid Email	The user will be prompted to re-enter a valid password and email. The account creation will be unsuccessful.	The user will be prompted to re-enter a valid password and email. The account creation will be unsuccessful.
7.	Invalid Username Valid Password Invalid Email	The user will be prompted to re-enter a valid username and email. The account creation will be unsuccessful.	The user will be prompted to re-enter a valid username and email. The account creation will be unsuccessful.
8.	Invalid Username Invalid Password Invalid Email	The user will be prompted to re-enter a valid username ,password and	The user will be prompted to re-enter a valid username ,password and

		email. The account creation will be unsuccessful.	email. The account creation will be unsuccessful.
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### Specific Case for Register

Test ID	Test Input	Expected Result	Actual Result
1	Username = testUser Password = testUser123 Email = <i>testUser@gmail.com</i>	Approve	Approve
2	Password = test (less than 8 characters)	Reject	Reject
3	Email = testUser (Invalid Email Address)	Reject	Reject

### Logout

Test ID	Scenario	Expected Result	Actual Result
1	Upon clicking the Logout button	Exit to Login Screen	Exit to Login Screen
2	Without clicking the Logout Button	Will not exit to login screen	Will not exit to login screen

### Reset

Test Id	Scenario	Expected Result	Actual Result
1	Valid Email Valid New Password	The User will receive an email that	The User will receive an email that

		contains a link to reset the user's account password. The new password will be updated.	contains a link to reset the user's account password. The new password will be updated.
2	Valid Email Invalid New password	The User will be prompted to re-enter a valid password and the account reset password will be unsuccessful.	The User will be prompted to re-enter a valid password and the account reset password will be unsuccessful.
3	Invalid Email	The user will be prompted to enter a valid email.	The user will be prompted to enter a valid email.

## Login

Test ID	Scenario	Expected Result	Actual Result
1	Valid username and valid password	The system redirect user to mainpage.	The system redirect user to mainpage.
2	Invalid username and invalid password	The system display error message	The system display error message
3	Invalid username and valid password	The system display error message	The system display error message
4	Valid username and invalid password	The system display error message	The system display error message
5	Login without filling up username and password fields	The system prompts user to fill up the required fields	The system prompts user to fill up the required fields

## Specific Case for Login

Test ID	Test Input	Expected Result	Actual Result
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1	Username= <i>testUser</i> Password= <i>testUserpw</i> (user credentials in database)	Approve	Approve
2	Username= <i>User</i> Password= <i>Userpw</i> (input does not match records in database)	Reject	Reject
3	Username= <i>User</i> Password= <i>testUserpw</i> (Username does not match records in database)	Reject	Reject
4	Username= <i>testUser</i> Password= <i>Userpw</i> (Password does not match records in database)	Reject	Reject
5	Username="" Password=""	Reject	Reject

## Create Questions

Test ID	Test Input	Expected Result	Actual Result
1	The user input at least 8 character in question input field and all 4 answer is filled at least 1 character each	The system will display message depict successfully and created	The system will display message depict successfully created
2	The user input at less than 8 character in question input field and all 4 answer is filled at least 1 character each	The system will display messages depicting unsuccessfully input and prompt users to type again.	The system will display messages depicting unsuccessfully input and prompt users to type again.
3	The user did not fill in the question input field and all 4 answers are less than 1 character.	The system will display messages depicting no input and prompt the user to type.	The system will display messages depicting no input and prompt the user to type.
4	The user did not fill in the question input field and all 4 answers are filled with at least 1 character each.	The system will display messages depicting no input in the question input field and prompt the	The system will display messages depicting no input in the question input field and prompt the

		user to type on the question field.	user to type on the question field.
5	The user input at less than 8 characters in question input field and all 4 answers are less than 1 character.	The system will display messages depicting no input in the answer input field and prompt the user to type on the answer field.	The system will display messages depicting no input in the answer input field and prompt the user to type on the answer field.

## Edit Questions

Test ID	Test Input	Expected Result	Actual Result
1	The user input at least 8 character in question input field and all 4 answer is filled at least 1 character each	The system will display message depict successfully and created	The system will display message depict successfully created
2	The user input at less than 8 character in question input field and all 4 answer is filled at least 1 character each	The system will display messages depicting unsuccessfully input and prompt users to type again.	The system will display messages depicting unsuccessfully input and prompt users to type again.
3	The user did not fill in the question input field and all 4 answers are less than 1 character.	The system will display messages depicting no input and prompt the user to type.	The system will display messages depicting no input and prompt the user to type.
4	The user did not fill in the question input field and all 4 answers are filled with at least 1 character each.	The system will display messages depicting no input in the question input field and prompt the user to type on the question field.	The system will display messages depicting no input in the question input field and prompt the user to type on the question field.
5	The user input at less than 8 characters in the question input field and all 4 answers are less than 1 character.	The system will display messages depicting no input in the answer input	The system will display messages depicting no input in the answer input field

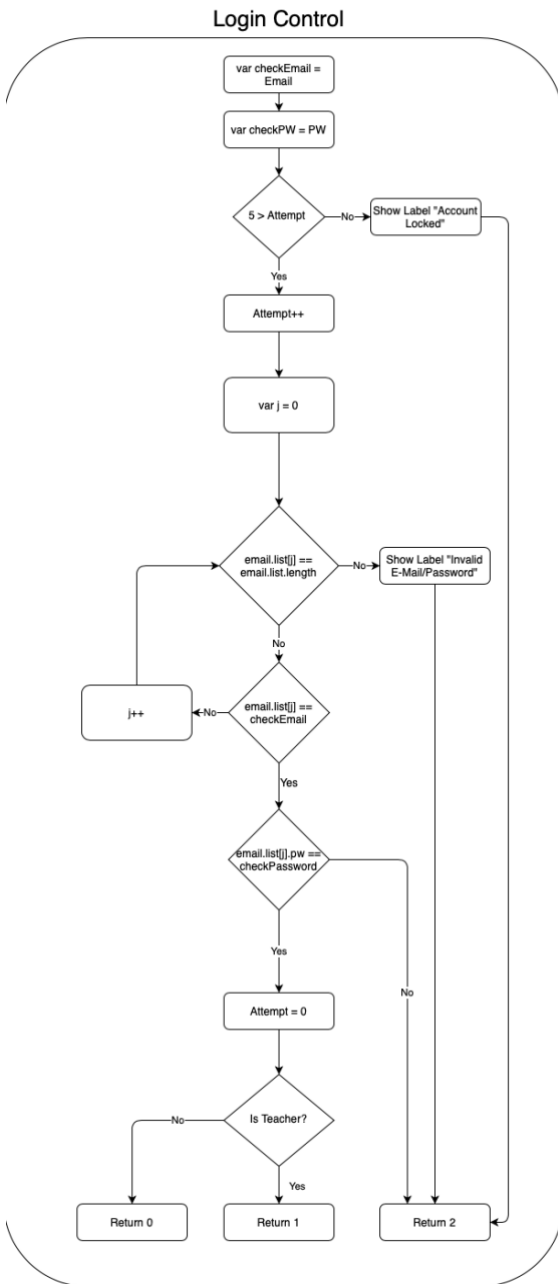
		field and prompt the user to type on the answer field.	and prompt the user to type on the answer field.
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# White Box

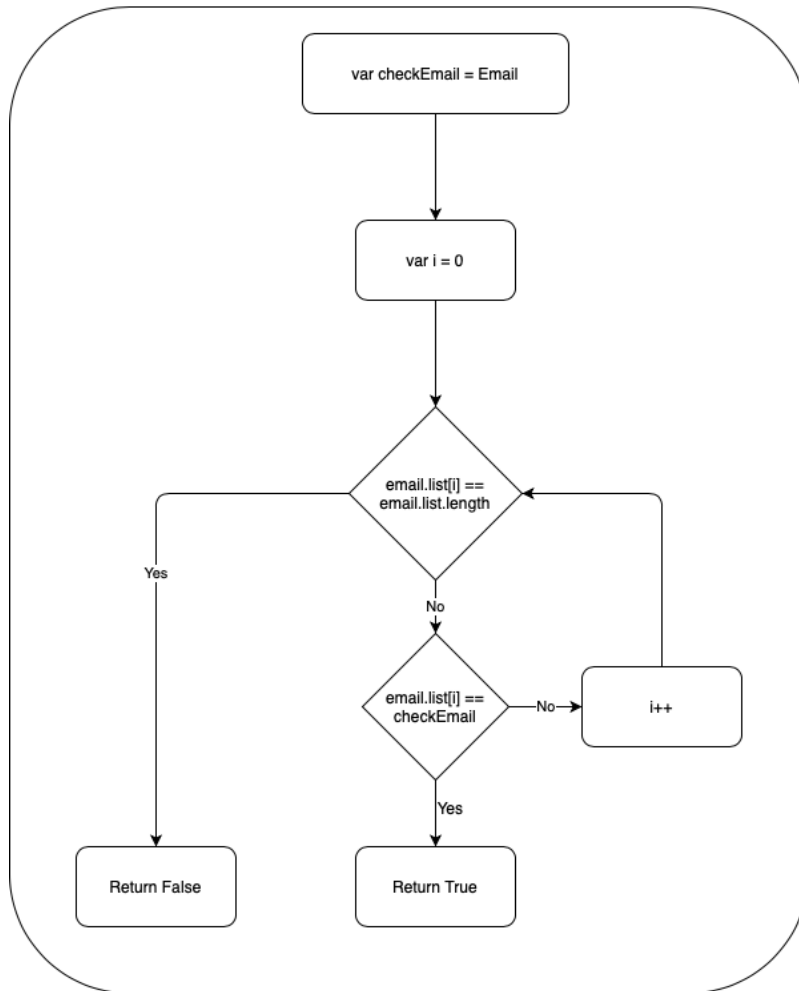
## API server

### Login



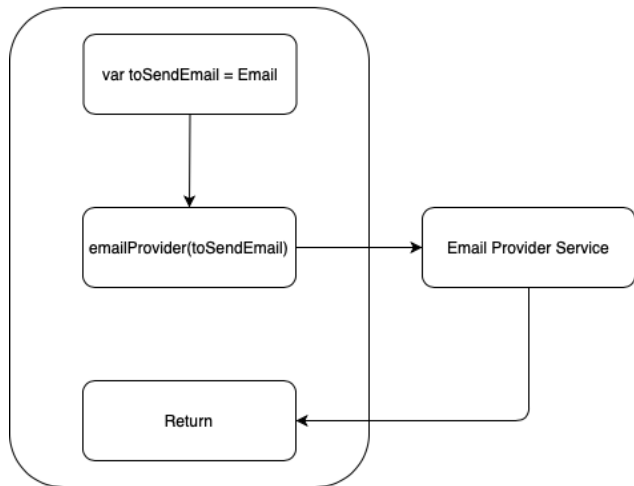
## Register

### Register Control



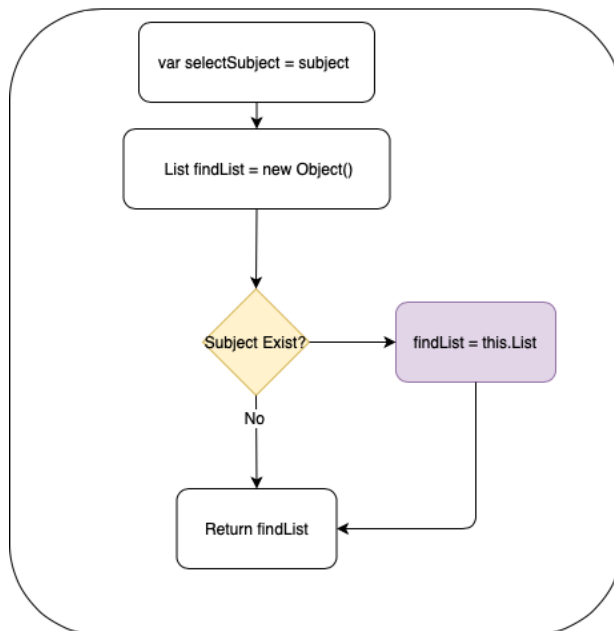
## Reset Password

### Reset Password Control

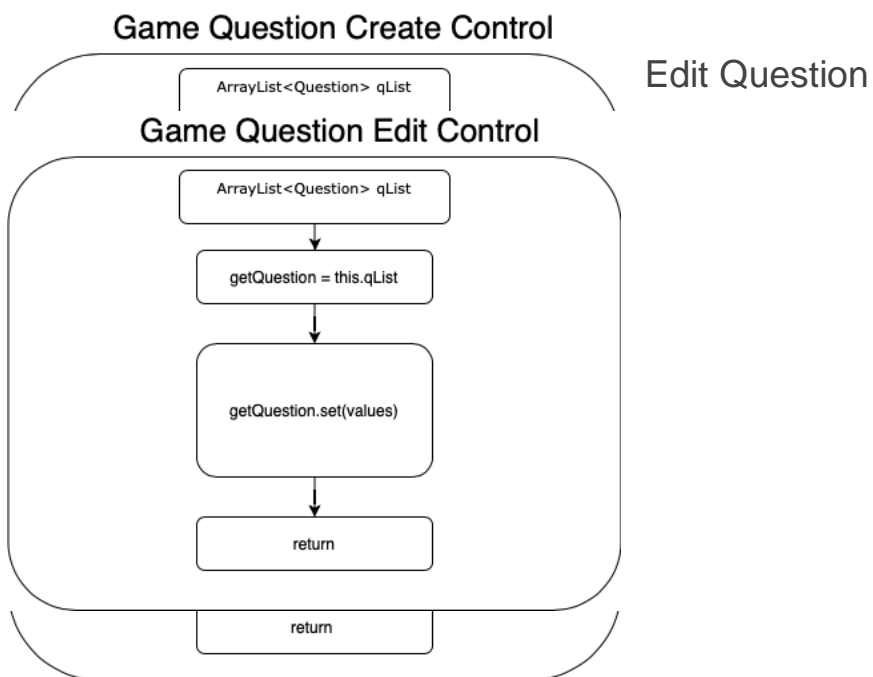


## Get Question List

### Game Question List Control

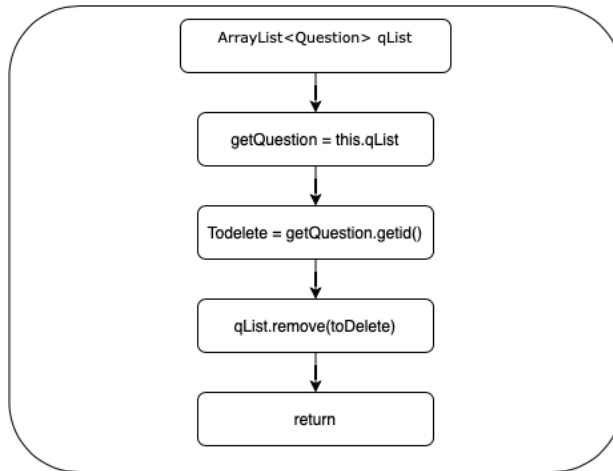


## Create Question



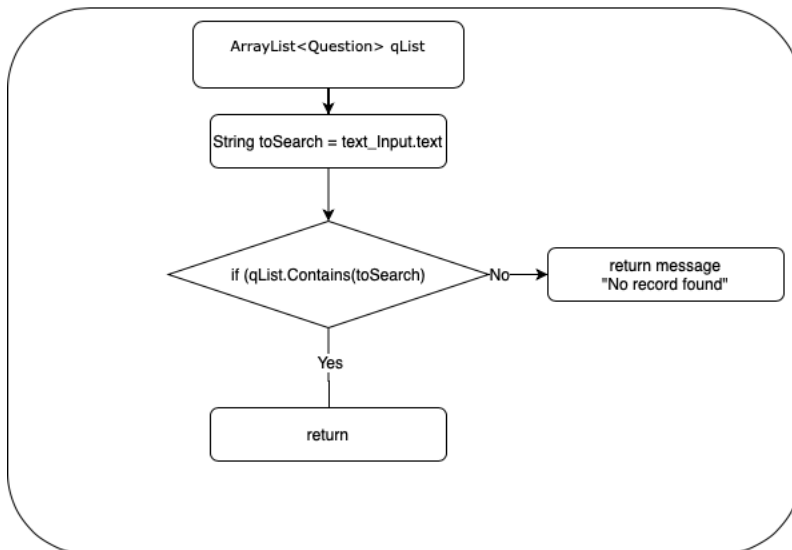
## Delete Question

### Game Question Delete Control



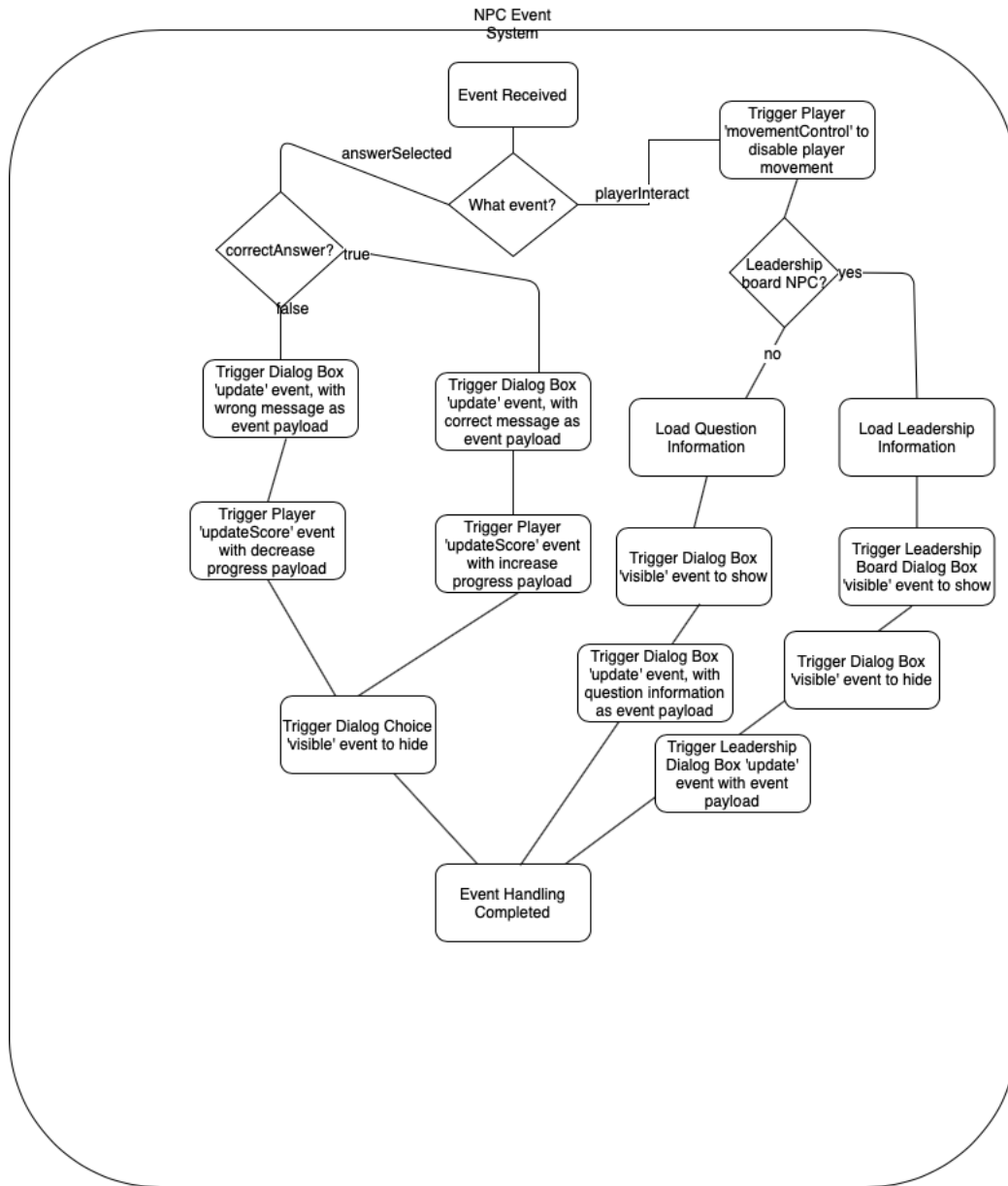
## Search Question

### Game Question Search Control



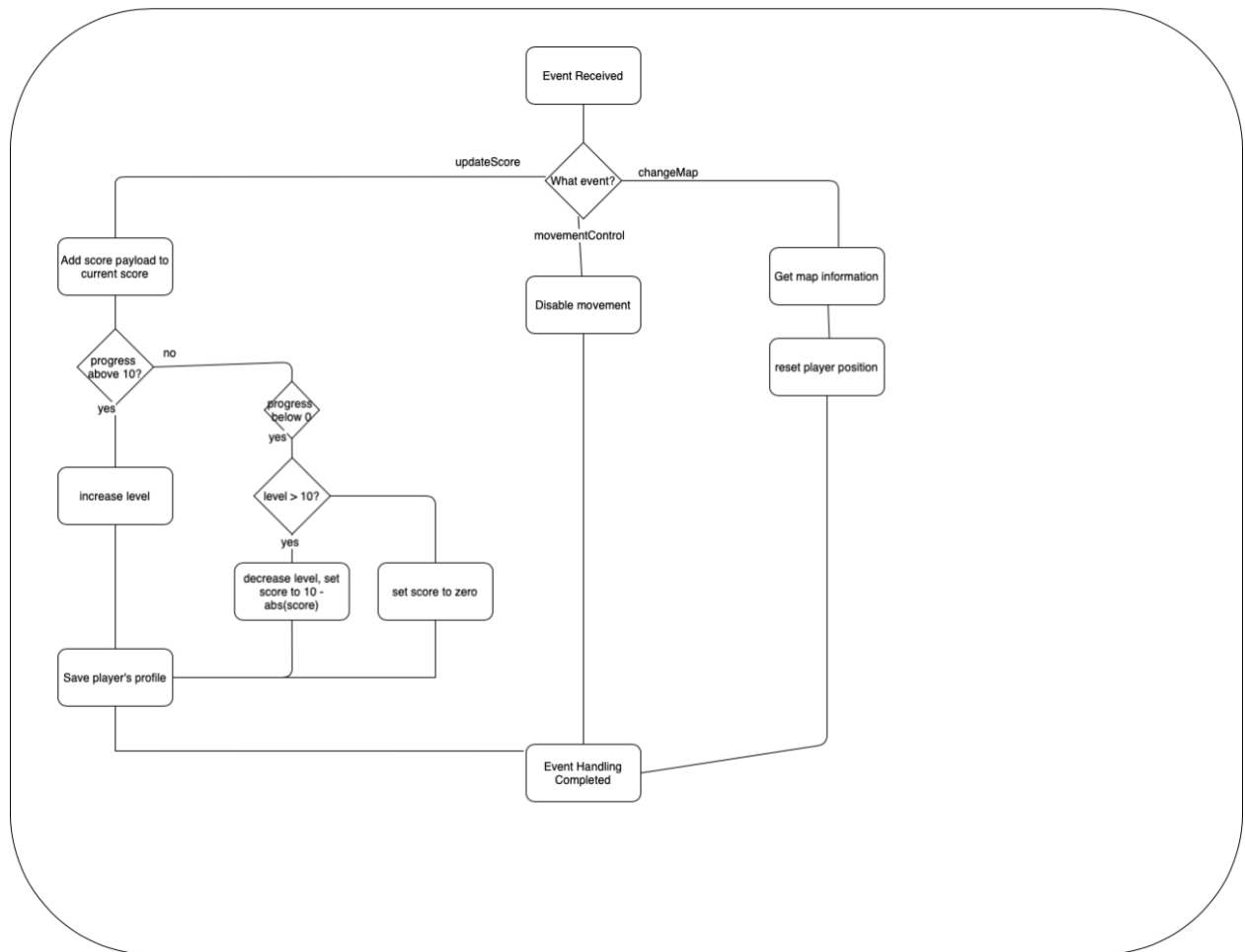
# Game Client

## NPC



# Player

Player



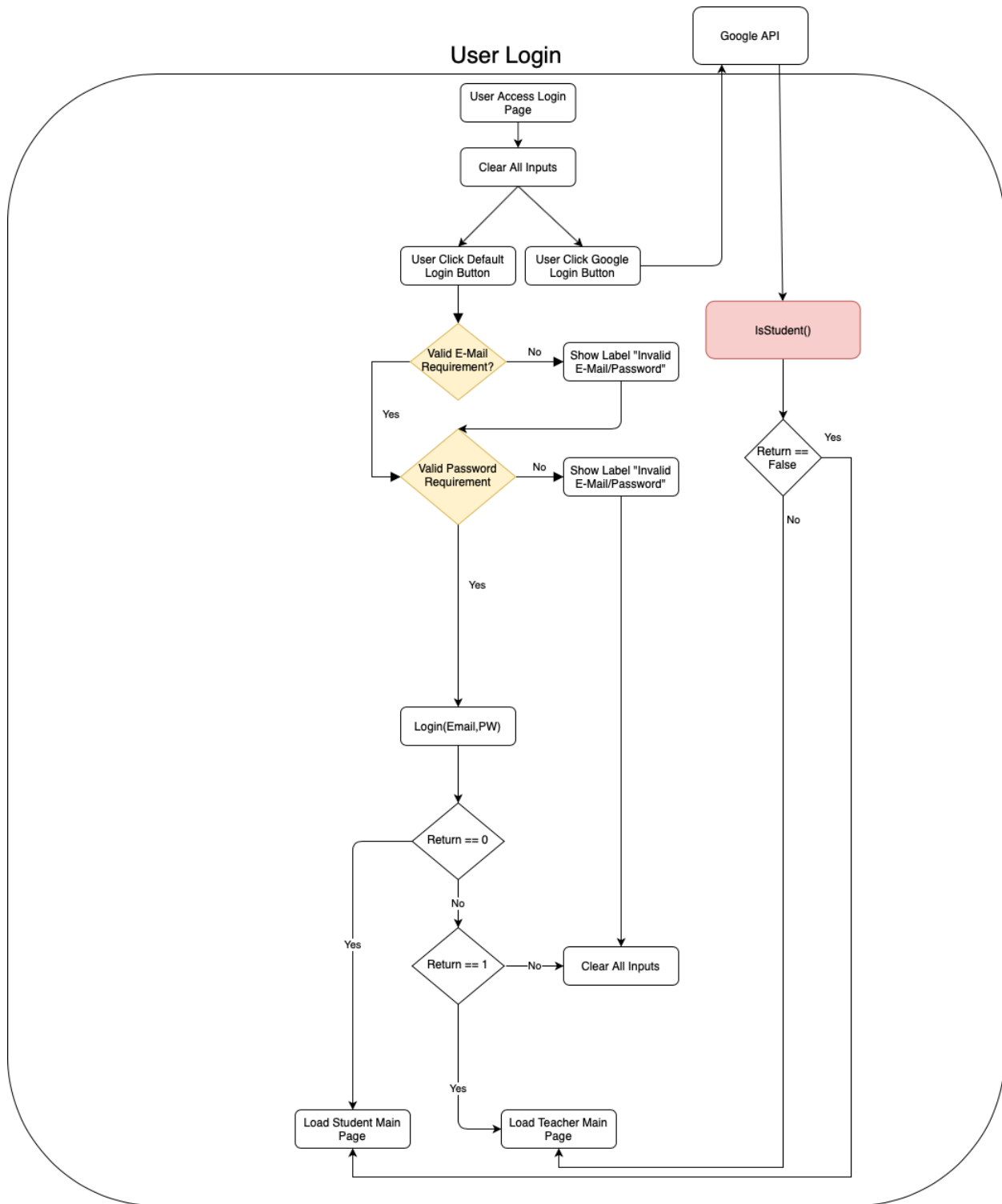
# Map



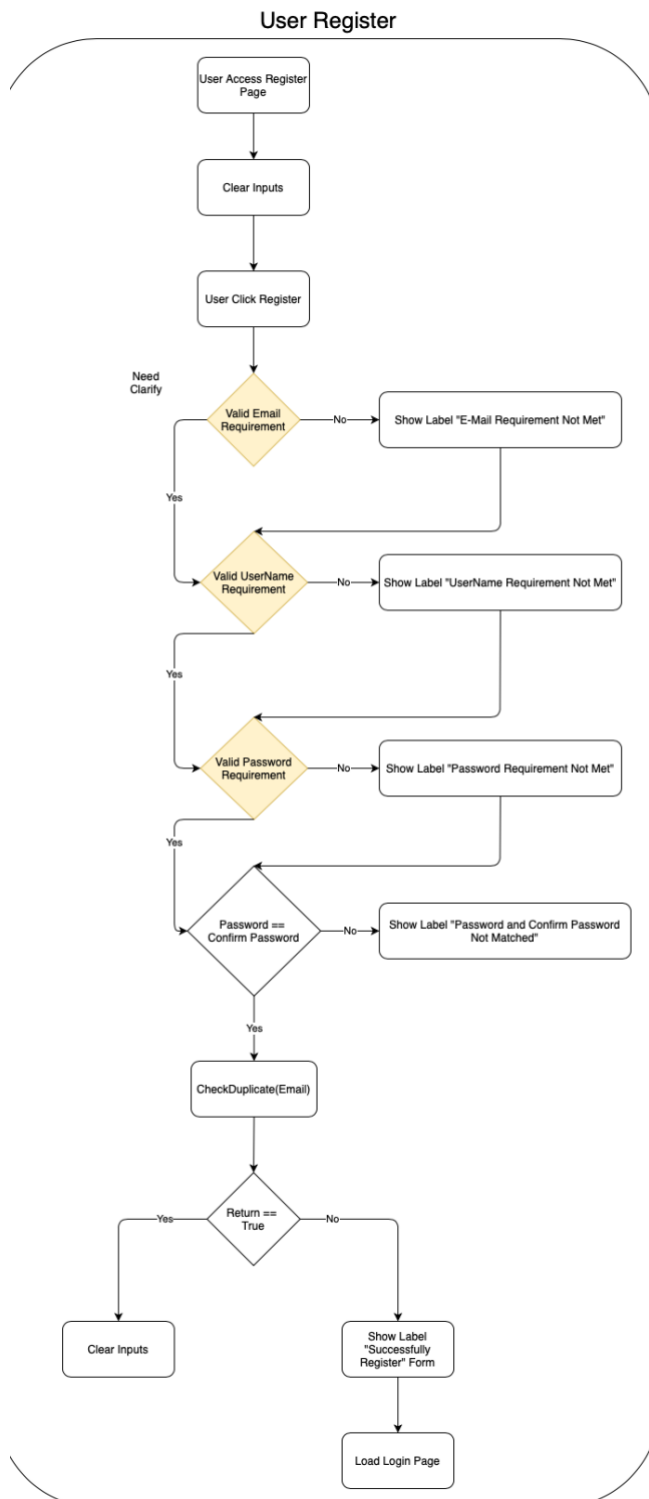


# Management Interface

## Login

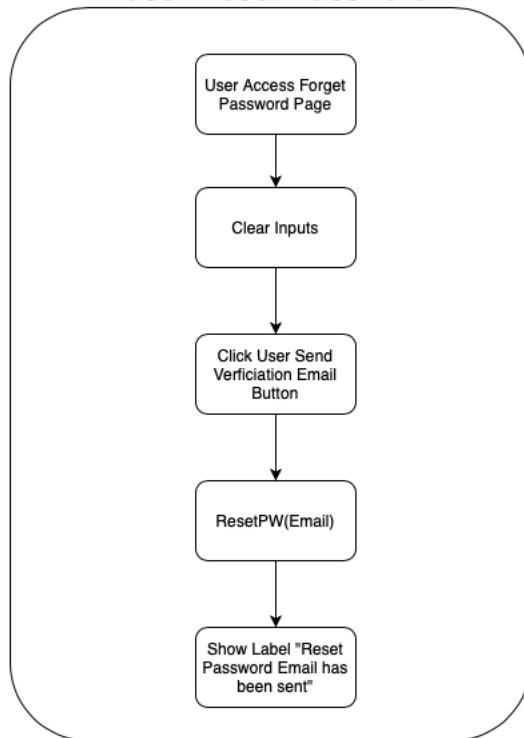


# Register



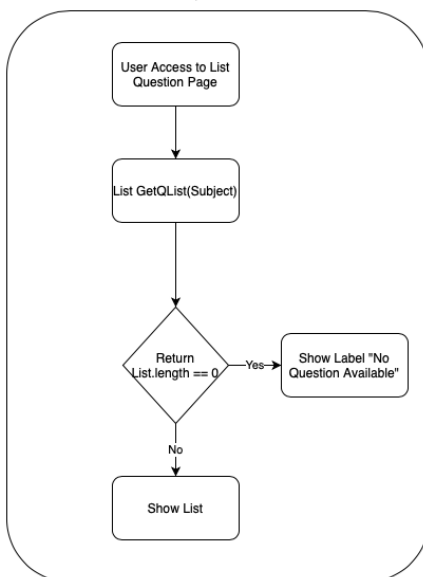
## Reset Password

### User Reset Password

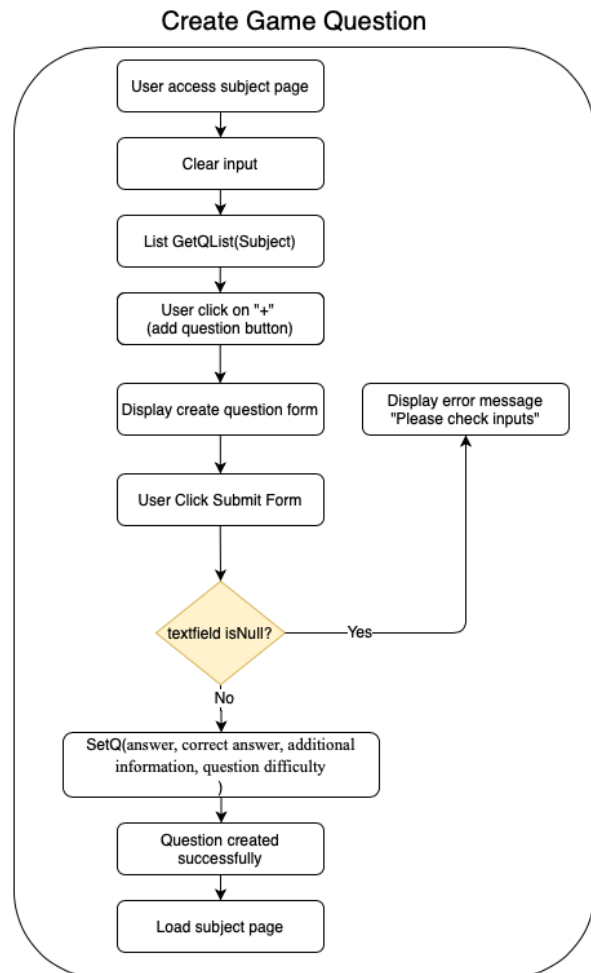
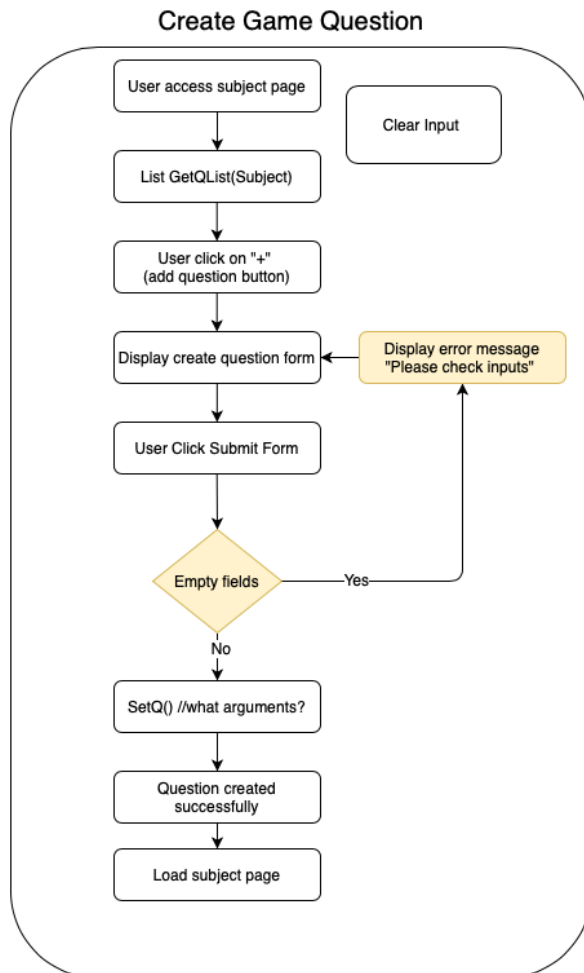


## List Question

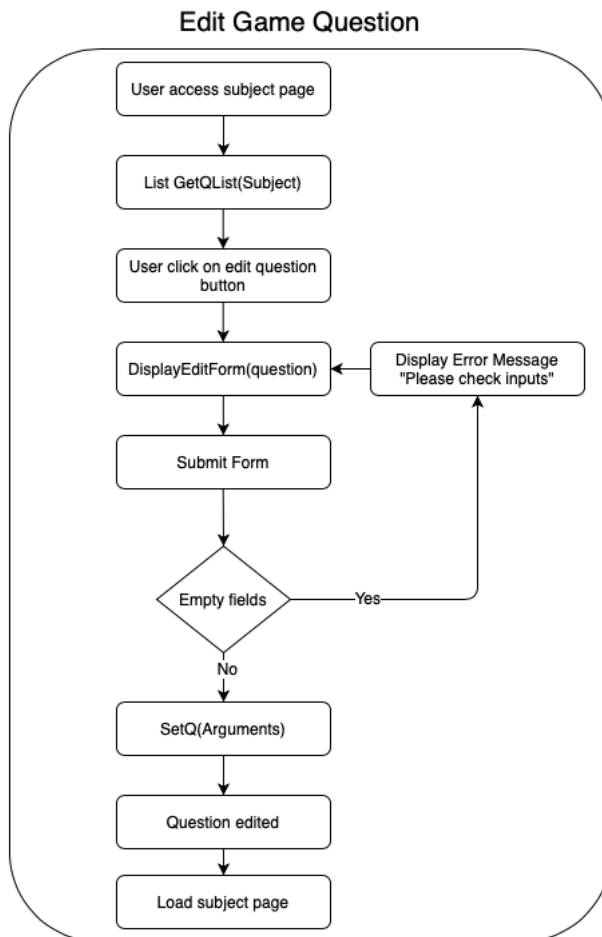
### Show Question List



## Create Question

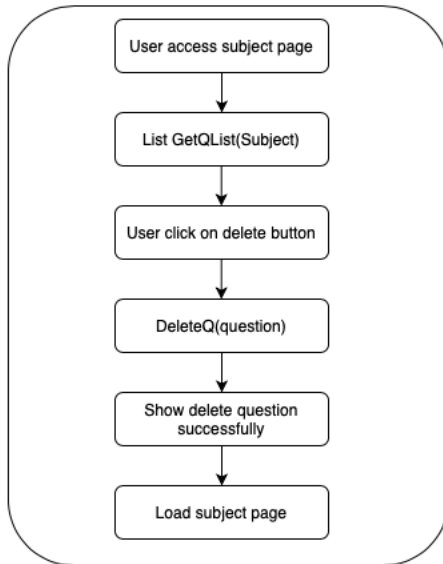


## Edit Question



## Delete Question

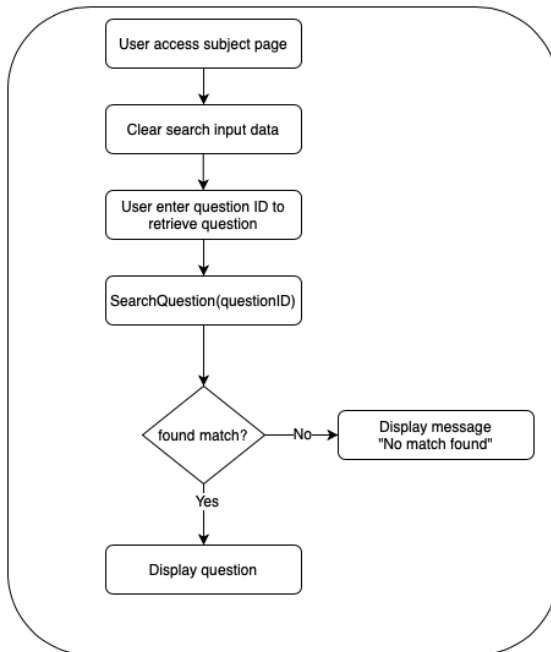
### Delete Game Question



## Retrieve Question

Search bar - by question id

### Retrieve Game Question



Search bar - by keywords

### Retrieve Game Question

