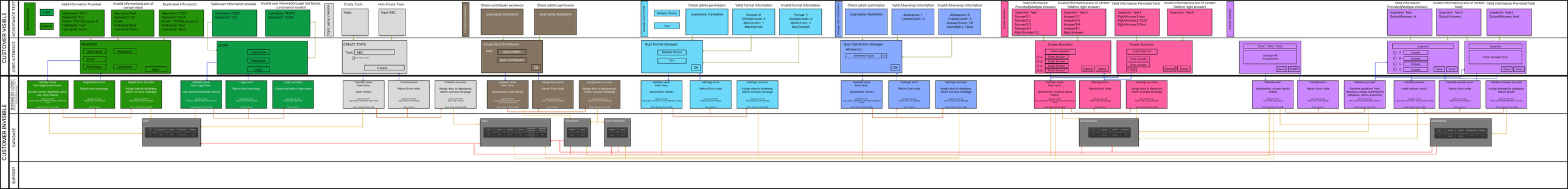
CUSTOMER VISIBLE
ACCEPTANCE TEST
USER INTERFACE
BUSINESS LOGIC
DATABASE
CUSTOMER INVISIBLE
SUPPORT
Authentication
Login
Register
Valid information Provided
Username: ITEST Password:123 Email:ITest@gcmu.ac.th Firstname:Test Lastname:Testo
Invalid information(Lack of certain field)
Username:Test Password:123 Email:ITest Firstname:Test Lastname:Testo
Duplicated information
Username: ITEST Password:1234 Email:ITest@gcmu.ac.th Firstname: test Lastname:Testo
Valid user information provide
Username: ITEST Password:123
Invalid user information(user not found, combination invalid)
Username: ITEST2 Password:12345
Topic setup creation
Empty Topic
Topic:
Non-Empty Topic
Topic:ABC
Dashboard Operations
Check contributor existence
Username: NotAdmin
Check admin permission
Username: NotAdmin
REGISTER
Username
Password
Email
Firstname
Lastname
Next
LOGIN
Username
Password
Login
CREATE TOPIC
Topic: ABC
Is new a quiz
Create
Assign Quiz Contributor
Add:
Quiz Admin
Quiz Contributor
OK
Validate value from register form. Invalid format, duplicate value etc. error check)
Data sent to API: Email, Username, Password, Firstname, Lastname form
Data: Node.JS Express DBM
Registration error
Return error message.
Data sent from API: Status code, Error message
Data: Node.JS
Registration success
Assign data to database, return success message
Data sent from API: Status code, Success message
Data: Node.JS Express DBM
Validate value from login form. (user-pwd combination check)
Data sent to API: Username, Hashed password form forms
Data: Node.JS Express DBM
Login error
Return error message.
Data sent from API: Status code, Error message
Data: Node.JS
Login success
Create and return login token
Data sent from API: Status code, Login Token
Data: Node.JS
Validate value from form. (user check)
Data sent to API: Log in token, User name, public status
Data: Node.JS Express DBM
Creation error
Return Error code
Data sent from API: Status code, Error message
Data: Node.JS
Creation success
Assign data to databases, return success message
Data sent from API: Status code, Success message
Data: Node.JS Express DBM
Validate value from form. (permission, user check)
Data sent to API: Log in token, quiz Topic ID, quiz Admin ID, Quiz Contributor ID
Data: Node.JS Express DBM
Assignment error
Return Error code
Data sent from API: Status code, Error message
Data: Node.JS
Assignment success
Assign data to databases, return success message
Data sent from API: Status code, Success message
Data: Node.JS Express DBM
Manage Quiz Format
Multiple Choice
Text
Check admin permission
Username: NotAdmin
Valid Format information
Format: 0 ChoiceCount: 4 MinCorrect: 1 MaxCorrect
Invalid Format Information
Format: 1 ChoiceCount: 4 MinCorrect: 1 MaxCorrect
Quiz Format Manager
Multiple Choice
Text
OK
Validate value from form. (permission check)
Data sent to API: Log in token, quiz Topic ID, quiz settings in JSON
Data: Node.JS Express DBM
Settings error
Return Error code
Data sent from API: Status code, Error message
Data: Node.JS
Settings success
Assign data to database, return success message
Data sent from API: Status code, Success message
Data: Node.JS Express DBM
Manage Quiz Distribution
Check admin permission
Username: NotAdmin
Valid Allowance Information
Allowance: 1 CreateCount: 3
Invalid Allowance Information
Allowance: 0 CreateCount: 3 AnswerCount: 20 AllowRetry: False
Quiz Distribution Manager
Allowance:
Allowance Type
OK
Validate value from form. (permission check)
Data sent to API: Log in token, quiz Topic ID, quiz settings in JSON
Data: Node.JS Express DBM
Settings error
Return Error code
Data sent from API: Status code, Error message
Data: Node.JS
Settings success
Assign data to database, return success message
Data sent from API: Status code, Success message
Data: Node.JS Express DBM
Create question
Valid information Provided(Multiple choices)
Question: Test Answer1:1 Answer2:3 Answer3:4 Answer4:2 RightAnswer:1,2
Invalid information(Lack of certain field)(no right answer)
Question: Test2 Answer1:2 Answer2:4 Answer3:6 Answer4:41 RightAnswer:
Valid information Provided(Text)
Question: Test3 RightAnswer1:Test RightAnswer2:TEST RightAnswer3:Test
Invalid information(Lack of certain field)(no right answer)
Question: Test4
Create Question
Enter Question
Enter Answer
Enter Answer
Enter Answer
Enter Answer
A.
B.
C.
D.
Add
Cancel
Done
Answer question
TOPIC TOPIC TOPIC
Attempt #9
20 Questions
Cancel
START
Question
A. Answer
B. Answer
C. Answer
D. Answer
Clear
Done
Enter Answer(Text)
Validate user. (permission, answer quota check)
Data sent to API: Log in token, quiz Topic ID, quiz question ID, JSON
Data: Node.JS Express DBM
Validate error
Return Error code
Data sent from API: Status code, Error message
Data: Node.JS
Validate success
Random questions from database, assign start time to database, return questions
Data sent from API: Log in token, quiz Topic ID, question number, JSON
Data: Node.JS Express DBM
Validate answer. (valid answer check)
Data sent to API: Log in token, quiz Topic ID, quiz question ID, JSON
Data: Node.JS Express DBM
Validate answer error
Return Error code
Data sent from API: Status code, Error message
Data: Node.JS
Validate answer success
Assign attempt to database, Return result.
Data sent from API: Status code, Success message, quiz result
Data: Node.JS Express DBM
User
ID
Username
Email
Password
Name
Topic
ID
Name
isPublic
Format
Allowance Type
Allowance Value
Settings JSON
QuizAdmin
TopicID
UserID
QuizContributor
TopicID
UserID
QuizQuestion
ID
TopicID
UserID
Question
QuizAttempt
ID
TopicID
UserID
AttemptTime
Answers