## **3.2 Technical Requirements (TRD)**

Epic: FE-01: Authentication

UC-07: Login

TC1 - Verify email - Correct email format

😄 T: Email: The correct email format

TC2 - Verify email - Invalid email format

😒 T: Email: Invalid email format

T:Password - Must be 8-16 characters, including at least 1 number, 1 uppercase character, 1 lowercase character, and 1 special character.

TC3 - Verify Password - From 8 to 16 characters satisfied all password rules

😄 T: 8-character password

😄 T: 16-character password

TC4 - Verify Password - Invalid password format

😒 T: 7-character password

😒 T: 17-character password

😒 T: 0 numeric character password

😒 T: 0 uppercase character password

😒 T: 0 lowercase character password

😒 T: 0 special character password

TC5 - Verify Login - Login success

😄 T: Login success (email - true, password - true)

TC6 - Verify Login - Login failure

😒 T: Login failed (email - false)

(email - true, password - false)

UC-01: Register as a student

TC7 - Verify email - Correct email format

😄 T: Email - The correct email format

TC8 - Verify email - Invalid email format

😒 T: Email - Invalid email format

TC9 - Verify Full Name - Full Name from 1 to 1000 characters

😄 T: Full Name - 1 characters

😄 T: Full Name - 1000 characters

TC10 - Verify Full Name - Full Name 1001 characters

~~😒 T: Full Name - 0 characters~~

😒 T: Full Name - 1001 characters

TC11 - Verify Phone - Phone number is in correct format with 10 digits.

😄 T: Phone - 10-digit phone number

TC12 - Verify Phone - Phone number required 10 numbers

😒 T: Phone - 9-digit phone number

😒 T: Phone - 11-digit phone number

~~TC13 - Verify Password - Must be between 8 and 16 characters, including a number, one uppercase letter, and one lowercase letter.~~ *~~(similar to login)~~*

TC14 - Verify Register - Register success

😄 T - Register success (email - true, full name - true, phone number - true, password - true, confirm password - true)

TC15 - Verify Register - Register failure

😒 T - Register failure: (email - false)

(email - true, full name - false)

(email - true, full name - true, phone number - false)

(email - true, full name - true, phone number - true, password - false)

(email - true, full name - true, phone number - true, password - true, confirm password - true)

UC-06: Register as a tutor

**ABOUT FORM (Đạt)**

TC16 - Verify about form - DOB - User must be over 18 years old

TC17 - Verify about form - Profile picture - Only JPG or PNG formats are allowed

TC18 - Verify about form - Profile picture - Size must not exceed 5MB

**EDUCATION FORM (Nhật)**

TC19 **-** Verify education form - Upload photo - Only JPG and PNG formats are accepted for upload.

TC20 - Verify education form - Upload photo - Files larger than 5 MB are not accepted for upload.

TC21 - VerifyAdd another education button - Must show another education form

TC22 - VerifySubmit form - Clicking the 'Save and continue' button submits the form.

**CERTIFICATE FORM (Dũng)**

TC23 - Verify certification form - “I don’t have relevant certificates” checkbox - Must hide all form fields

T : Have a certificate checkbox (true): Hide form fields

T : Have a certificate checkbox (false): Show all form fields

TC24 - Verify certification form - Certificate Upload - Only JPG and PNG formats are accepted for upload.

TC25 - Verify certification form - Certificate Upload - Size must not exceed 5MB

TC26 - Verify certification form - Add another certificate button - Must show another certificate form

**DESCRIPTION FORM (Giang)**

TC27 - Verify description form - Youtube Link - The link with the right format will be rendered

(Ex: <https://www.youtube.com/watch?v=FgS5DEMg8K0>)

**AVAILABILITY & PRICING FORM (Tiến)**

TC28 - VerifyDay Selection - Each day checkbox can be toggled to select or deselect availability.

TC29 -Verify Day Selection - When a day checkbox is selected, at least one timeslot must be provided.

TC30 -Verify Day Selection - When a day checkbox is deselected, all timeslots for that day should be removed or hidden.

TC31 - VerifyTime Slot - Each time slot must have a valid "From" time.

TC32 - VerifyTime Slot - Each time slot must have a valid "To" time.

TC33 - Verify Timeslot - The "From" time must be earlier than the "To" time within the same timeslot.

TC34 - VerifyTimeslot - Overlapping timeslots for the same day are not allowed.

TC35 - VerifyTimeslot - User must be able to add multiple timeslots for the same day.

TC36 - VerifyTimeslot - User must be able to remove individual timeslots.

Epic: FE-02: Tutor Booking

**UC-02: Search Tutor**

TC37 - Verify Search by keyword - Ensure that the correct tutors are returned when searching by keyword.

TC38 - Verify Search by Specialities - Ensure that the correct tutors are returned when searching by specialities.

TC39 - Verify Search by Price Range - Ensure that the correct tutors are returned when searching by price range.

TC40 - Verify Search by Tutor Level - Ensure that the correct tutors are returned when searching by tutor level.

TC41 - Verify Search with Sorting - Ensure that the tutors are returned in the correct order when sorted by rating.

TC42 - Verify Search - Render Search Form - Ensure the search form is rendered correctly.

**UC-04: View Tutor’s Details**

TC43 - Verify Tutor Details - Ensure Tutor details render correctly

**UC-20: Select Tutor available time slots**

TC44 - Verify Select Time Slot - Ensure students can only select available time slots in the next 7 days of chosen tutor

TC45 - Verify Select Time Slot - Time slots selected cannot exceed 20 slots in one booking

Epic: FE-03: In-App Communication

**UC-08: Chat**

TC46 - Verify chat - Test render of message content

Epic: FE-04: Feedback and Rating System

**UC-21: Give feedback**

TC47 - Verify Feedback - At least 1 star must be chosen to be able to submit

TC48 - Verify Feedback - Feedback content maximum 255 character

**UC-30: Reply Student’s Feedback**

TC49 - Verify Reply - maximum 255 character

Epic: FE-05: Tutor Profile Management

**UC-27: View Tutor Profile**

TC50 - Verify tutor profile - Test render of tutor information

**UC-28: Update Tutor Profile**

TC51 - Verify update tutor profile - Update tutor description limit 255 character

**UC-31: View Schedule**

TC52 - Verify view schedule - Test render of tutor schedule

**UC-32: Update Schedule**

TC53 - Verify update schedule - Update schedule maximum 1 hours per slot

Epic: FE-06: Student Profile Management

**UC-25: View Student Profile**

TC54 - Verify student profile - Test render of student information

**UC-26: Update Student Profile**

TC55 - Verify update student profile - Update student fullName maximum 255 character

TC56 - Verify update student profile - Update student email correct format

**UC-22: View taken classes**

TC57 - Verify view taken class - Test render of correct class

**UC-23: View future classes**

TC58 - Verify view future classes - Test render of correct appointment (status === PAID)

Epic: FE-07: Payment and Transaction Management

**UC-19: Make online payment**

TC59 - Verify payment - Test Render of Correct course information

TC60 - Verify payment - Test correct redirect URL

**UC-24: View payment history**

TC61 - Verify payment history - Check correct status get from API checkPaymentStatus()

TC62 - Verify payment history - Test render of correct appointment (status === PAID)

Epic: FE-08: Question Management

**UC-03: Search Question**

TC63 - Verify Search Keyword Field - Search by keyword

TC64 - Verify subject select field- Filter by subject

**UC-05: View question detail**

TC65 - Verify Question View - View the newest questions within 1 month

**UC-18: View all question created**

TC66 - Verify view all question - View 5 questions per page

**UC-15: Create Questions**

TC67 - Verify “Enter your question” field - Maximum 1000 characters

**UC-16: Edit question**

TC68 - Verify “Enter your question” field - Update question with maximum 1000 characters

(Similar to create questions UC)

**UC-17: Delete question**

TC69 - Verify Question - Confirm deletion

Epic: FE-09: Administrative Control Panel

**UC-11: View all user accounts**

TC70 - Verify view all user - View 20 users per page

**UC-12: Update user information**

TC71 - Verify “Enter email,fullname,password” field - Update user profile( email, fullname,... with correct format)

**UC-13: Block user account**

TC72 -Verify block user- Confirm Blocking

**UC-14: View charts**

TC73 - Verify User activities chart -"User Activity" chart. ( login time, active users)

TC74 - Verify feedback chart. - number of complaints by type, resolution rates

Epic 10: Moderation Control Panel

**UC-09: Approve tutor register information**

TC75 - Verify Tutor’s Profile - Update tutor profile with 255 characters

**UC-10: Approve questions**

TC76 - Verify Question - Update question’s status to “Approved” when content is qualified

TC77 - Verify Question - Update question’s status to “Rejected” when content is not qualified

**LOGIN**

😄 **T1**: Email: The correct email format

😒 T: Email: Invalid email format

**T2:** Password - Must be between 8 and 16 characters, including at least a number, one uppercase letter, one lowercase letter, and one special character.

😒 T: 7-character password

😒 T: 17-character password

😄 T: 8-character password

😄 T: 16-character password

😒 T: 0 numeric character password

😒 T: 0 uppercase character password

😒 T: 0 lowercase character password

😒 T: 0 special character password

😄 T: Login success (email - true, password - true)

😒 T: Login failed (email - false)

(email - true, password - false)

**T3:** Login with Google – Receive token in cookie *(Test API)*

**REGISTER**

😄 **T4:** Email - The correct email format

😒 T Email - Invalid email format

**T5:** Full Name - Full Name from 1 to 1000 characters

😒 T: Full Name - 0 characters

😒 T: Full Name - 1001 characters

😄 T: Full Name - 1 characters

😄 T: Full Name - 1000 characters

**T6:**  Phone - Phone requires 10 numbers.

😒 T: Phone - 9-digit phone number

😒 T: Phone - 11-digit phone number

😄 T: Phone - 10-digit phone number

**T7:**  Password - Must be between 8 and 16 characters, including a number, one uppercase letter, and one lowercase letter. *(similar to login)*

😄 T - Register success (email - true, full name - true, phone number - true, password - true, confirm password - true)

😒 T - Register failure: (email - false)

(email - true, full name - false)

(email - true, full name - true, phone number - false)

(email - true, full name - true, phone number - true, password - false)

(email - true, full name - true, phone number - true, password - true, confirm password - true)

**ABOUT FORM (Đạt)**

**T8:** DOB - User must be over 18 years old

**T9:**  Profile picture - Only JPG or PNG formats are allowed

**T10:** Profile picture - Size must not exceed 5MB

**EDUCATION FORM (Nhật)**

**T51** Upload photo - The 'Upload your photo' button is present and clickable.

**T52** Upload photo - Only JPG and PNG formats are accepted for upload.

**T53** Upload photo - Files larger than 5 MB are not accepted for upload.

**T** Add another education button - Must show another education form

**T56** Submit form - Clicking the 'Save and continue' button submits the form.

**CERTIFICATE FORM (Dũng)**

**T** I don’t have relevant certificates checkbox - Must hide all form fields

😒 T : Have a certificate checkbox (true)

😒 T : Have a certificate checkbox (false)

**T** Certificate Upload - Only JPG and PNG formats are accepted for upload.

**T** Certificate Upload - Size must not exceed 5MB

**T** Add another certificate button - Must show another certificate form

**DESCRIPTION FORM (Giang)**

T - Youtube Link - The link with the right format will be rendered

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**AVAILABILITY & PRICING FORM (Tiến)**

**T** Day Selection - Each day checkbox can be toggled to select or deselect availability.

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**T** Timeslot - The "From" time must be earlier than the "To" time within the same timeslot.

**T** Timeslot - Overlapping timeslots for the same day are not allowed.

**T** Timeslot - User must be able to add multiple timeslots for the same day.

**T** Timeslot - User must be able to remove individual timeslots.

**QUESTION FORM (Nhật)**

**T -** Attach a file - Display popup to choose file

**T -** Submit - Clickable and display notification successfully

**BOOK TUTOR FORM (Giang)**

T - Date - Only the next 7 days can be selected

T - Time Slot - At least one time slot must be chosen when submitted

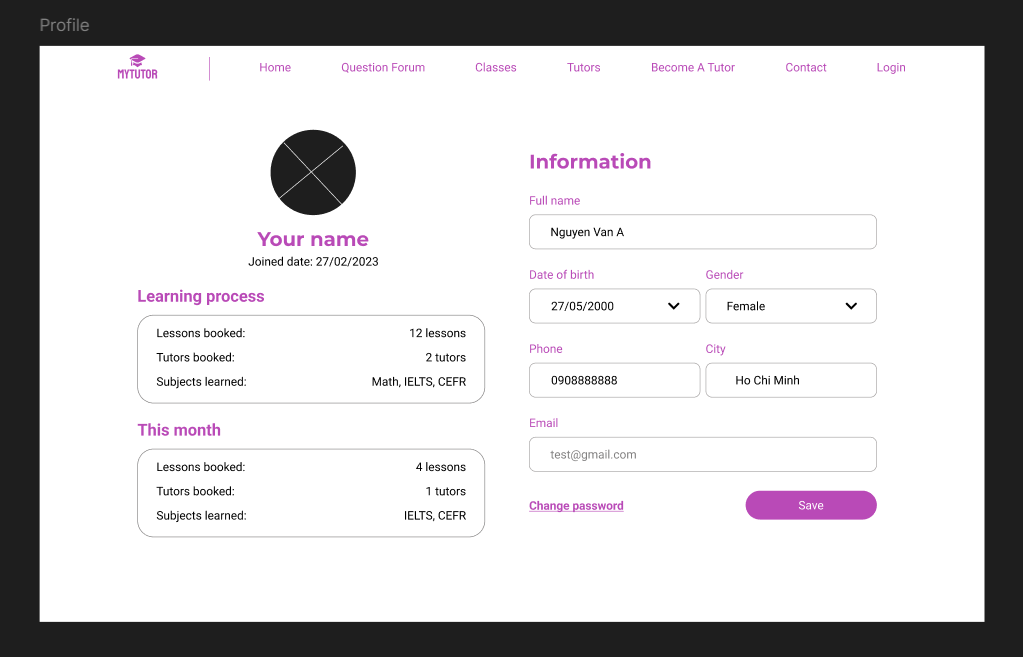
**FEEDBACK (Giang)**

T - Feedback - Must choose at least one star to submit feedback.

**USER PROFILE (Giang)**

T - Learning Process - Information must be true

T - Birthday - Must be more than 18 years old

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