System Testing Report

Time Tracker App- System Testing

IT-314 Software Engineering
Group 24

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Black Box testing

1. New User Sign Up & OTP Validation

VC1 : Email Input Require
VC2 : Email Format Valid

Test Case	Input Details	Input Value	Expected Output	Actual output	Constraints Covered
SIGNUP-1	Empty Email field for OTP request.	(Leave blank)	Error: "Email cannot be empty."	Please fill Email Address Field	**VC1** (Not Empty)
SIGNUP-2	Valid email provided for OTP request.	test.user@example.com	Success: OTP sent, redirected to OTP verification screen.	OTP sent, redirected to OTP verification screen.	**VC2** (Valid Format)
SIGNUP-3	Invalid email format provided for OTP request.	invalid_email_at_com	Error: "Invalid email format. Please check your entry."	Email is not valid in parameter	**VC2** (Invalid Format)
SIGNUP-4	Correct OTP entered (assuming 123456 was sent).	123456	Success: Directed to the full Sign Up form.	Directed to the full Sign Up form.	OTP-ECP (Valid)

SIGNUP-5	Incorrect OTP entered (e.g., a different number).	654321	Error: "Invalid OTP. Please try again."	Invalid OTP. Please try again	OTP-ECP (Invalid)
SIGNUP-6	OTP field left blank.	(Leave blank)	Error: "OTP required."	Invalid OTP required	OTP-ECP (Empty)
SIGNUP-7	OTP field entered with non-numeric input.	ABCDEF	Error: "Invalid OTP format."	Invalid OTP. Please try again	OTP-ECP (Format)
SIGNUP-8	OTP entered after the time limit (simulated by waiting).	123456 (after 5+ mins)	Error: "OTP expired. Please request a new one."	OTP expired. Please request a new one.	OTP-ECP (Expired)

2. Password Creation (Boundary Value Analysis and Equivalence class Partitioning)

Test Case Name	Input Details	Input Value	Expected Output	Constraints Covered
PASS-1	Valid input with min length (6 chars, all constraints).	A@1bC$	Success: Account created/Password set.	BVA (Min), ECP (Valid)
PASS-2	Valid input with max length (12 chars, all constraints).	Z!9yX*8wQpL1	Success: Account created/Password set.	BVA (Max), ECP (Valid)

PASS-3	Input with length 5.	A!1a1	Error: "Password too short (min 6 characters)."	**BVA min-1 Invalid**
PASS-4	Input with length 13.	P@ssw0rd12345	Error: "Password too long (max 12 characters)."	**BVA max+1 Invalid**
PASS-5	Valid length, missing special character.	Passw0rd1	Error: "Password must contain at least one special character."	**ECP (Invalid - Missing Special)**
PASS-6	Valid length, missing capital letter.	passw0rd1!	Error: "Password must contain at least one capital letter."	**ECP (Invalid - Missing Capital)**
PASS-7	Valid length, missing numeric digit.	PassWord!!	Error: "Password must contain at least one numeric digit."	**ECP (Invalid - Missing Numeric)**
PASS-8	Valid length, missing small letter.	PASSW0RD1!	Error: "Password must contain at least one small letter."	**ECP (Invalid - Missing Small)**

3. Login Functionality

Test Case Name	Input Details	Input Value (Email/Username)	Input Value (Password)	Expected Output	Actual output	Constraints Covered
LOGIN-1	Valid registered Email and Correct Password.	valid.user@app.com	P@ssw0rd1!	Success: User successfully logged into the dashboard.	User logged into the dashboard	ECP (Valid Email)

LOGIN-2	Valid registered Username and Correct Password.	test_user_name	P@ssw0rd1!	Success: User successfully logged into the dashboard.	User logged into the dashboard	ECP (Valid Username)
LOGIN-3	Valid Email, but Incorrect Password.	valid.user@app.com	WrongPass2$	Error: "Invalid credentials. Please check your password."	Invalid credentials - wrong password	ECP (Invalid Password)
LOGIN-4	Valid Username, but Incorrect Password.	test_user_nam	WrongPass2$	Error: "Invalid credentials. Please check your password."	Invalid credentials - wrong password	ECP (Invalid Password)
LOGIN-5	Non-existent Email or Username, with a valid password.	nonexistent@app.com	P@ssw0rd1!	Error: "Invalid credentials. User not found."	Invalid credentials - User not found	ECP (Non-existent Credential)
LOGIN-6	Invalid Email Format used (not a username).	user@invalid	P@ssw0rd1!	Error: "Invalid email format."	Invalid credentials - User not found	ECP (Format Check)

| LOGIN-7 | Email/Username field left empty. | (Empty) | P@ssw0rd1! | Error: "Email or username cannot be empty." | Error - please fill out this field message | ECP (Empty Field) |
| LOGIN-8 | Password field left empty. | valid.user@app.com | (Empty) | Error: "Password cannot be empty." | Error - please fill out this field message | ECP (Empty Password) |

4. Project Management & Permissions

Constraints:
VC1: Project Creator/Owner can create projects
VC2 : Project Creator/Owner can add members (must be registered),
VC3 : Project Creator/Owner can assign tasks.
VC4 : Project Members cannot add members or assign tasks (UI elements should be disabled/hidden)

Test Case Name	Input Details	Input Value	Expected Output	Actual output	Constraints Covered
PROJ-1	User logged in, creates a new project with valid details.	Name: Website Redesign Desc: Q4 overhaul	Success: Project created, User A is Owner.	Success - project create, owner - User A	VC1 (Valid Creation)

PROJ-2	Owner attempts to add a member who is not registered in the app.	Email: ghost@unknown.com	Error: "User not found. Members must be registered users."	Message - no results found	VC2(Registered User Check)
PROJ-3	Owner assigns a task to an added member.	Task: Fix Navbar Assignee: member@test.com	Success: Task assigned. appears in User B's task list.	Success - Task assigned successfully , appears in User B's list	VC3 (Task Assignment)
PROJ-4	User who is a Project Member (not owner) views the project dashboard.	Logged in as: member@test.com	**UI Check:** "Add Member" and "Add Task" buttons are **Hidden/Disabled**.	"Add Member" and "Add Task" buttons are **Hidden/Disabled**	**Permission Check** (Role Restrictions)
PROJ-5	Project Member starts timer for their own task.	Task: Fix Navbar	Success: Timer starts running; status changes to "In Progress".	Success: Timer starts running	**Core Functionality**
PROJ-6	Project Member looks for timer options on a task assigned to *someone else*.	Task: Database Setup (Assigned to Owner)	**UI Check:** "Start Timer" button is **Disabled**.	"Start Timer" button is **Disabled**.	**Permission Check** (Task Ownership)

PROJ-7	Project Member stops the timer for their own task.	Task: Fix Navbar	Success: Timer stops, duration is logged to the database.	Success- Timer stops, duration is logged to the database.	**Core Functionality**
PROJ-8	Owner attempts to create a project with an empty name.	Name: (Empty) Desc: Test	Error: "Project name cannot be empty."	Message - Please fill out this field	**Input Validation** (Required Field)
PROJ-9	Owner opens the "Assign To" dropdown while creating a task.	Action: Click "Assignee" Dropdown	**UI Check:** List contains **only**member@test.com (and Owner). stranger@test.com is **NOT**listed.	**UI Check:** List contains **only** added members including owner	**Business Logic**(Member Scope)

5. Notification Functionality

Test Case Name	Input Details	Input Value	Expected Output	Actual output	Constraints Covered
NOTIF-1	Task assigned with a due time of **exactly 24 hours** from now.	Task Due: 2025-10-28 Run Trigger at: 2025-10-27	**Email reminder** is received by the assigned member's inbox.	**Email successfully received in assigned members's inbox**	**Boundary Timing**(Exact)

NOTIF-2	Task assigned with a due time of **24 hours** from now and you click notify deadlines button (In-App check).	Task Due: 2025-10-28	**In-app notification** badge count increases (e.g., 0 to 1).	**Badge count increases**	**Delivery** (In App)
NOTIF-4	Member clicks the in-app notification bell.	Action: Click Bell Icon	Dropdown/List opens; **"Task X due tomorrow"** is displayed in the list.	The drop down list shows the due task	**UI Functionality**

ACCEPTANCE TESTING

1 . SignUp
Email : user@example.com
Name : User
Password : User@123
Confirm Password : User@123
Output : Valid
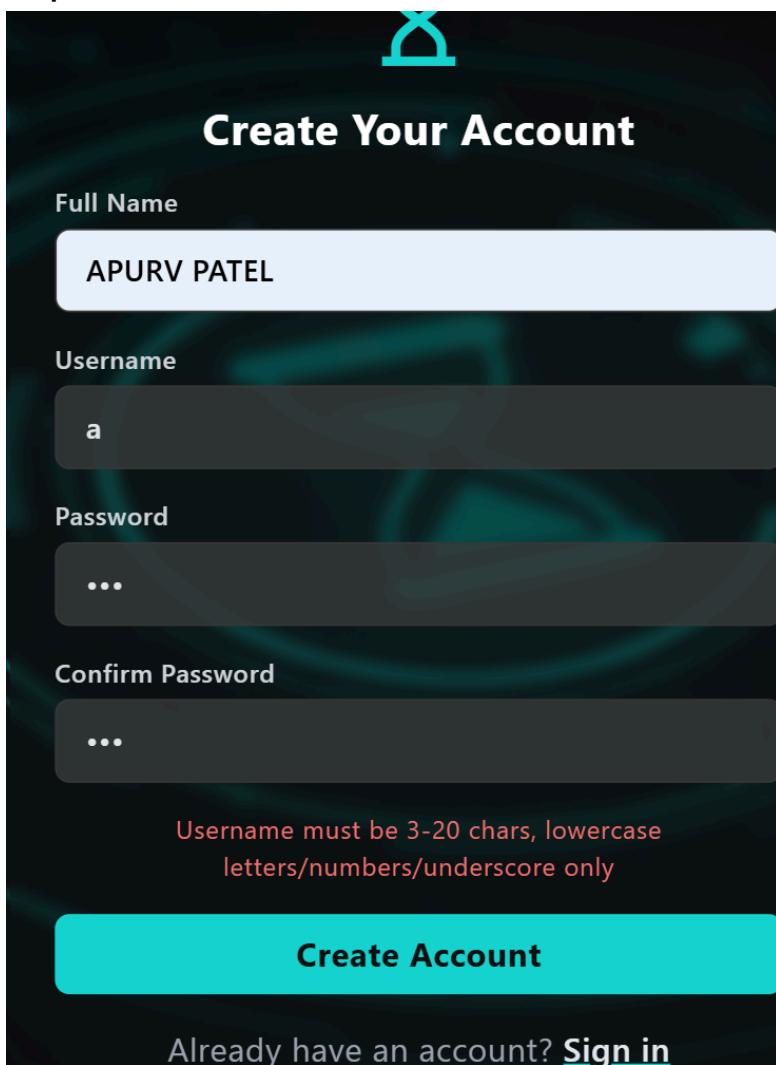
2. Full name : Apurv Patel
Username : a
Password : 123
Confirm Password : 123
Output : Invalid
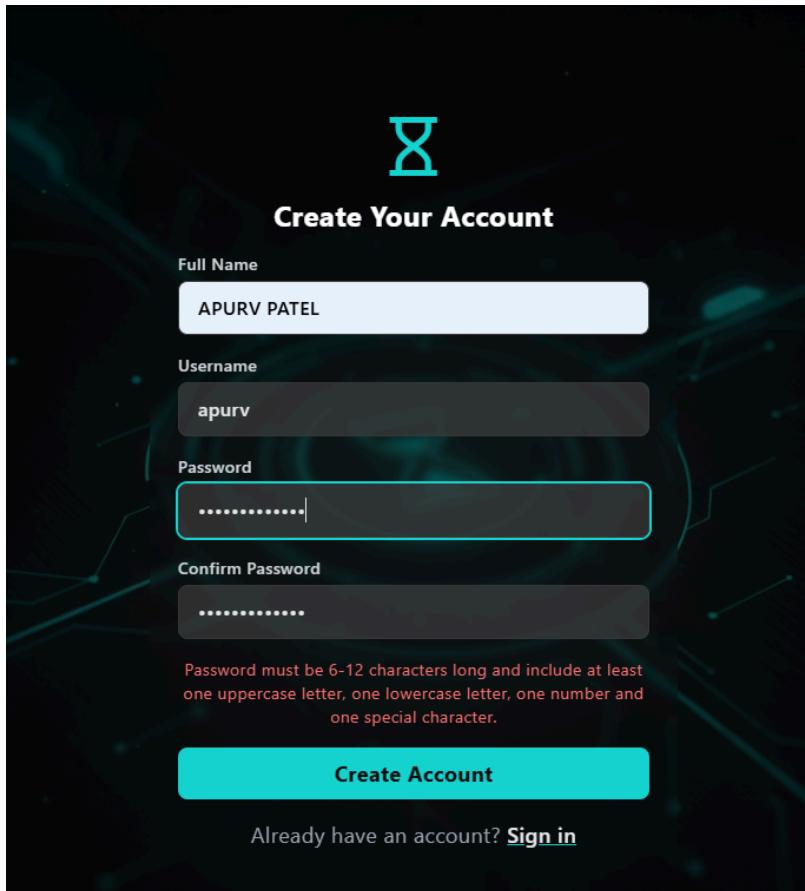
3. Full name : Apurv Patel
Username : apurv
Password :P@ssw0rd12345
Confirm Password : P@ssw0rd12345
Output : Invalid
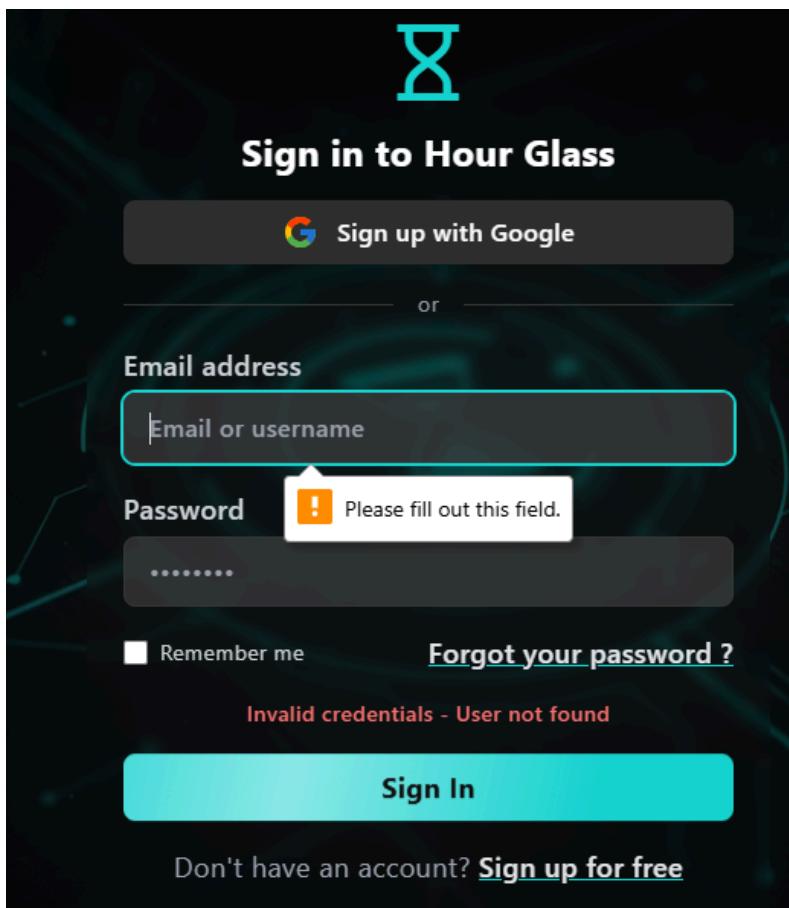
4. Sign in
Email address or username :
Password : Pass@1234
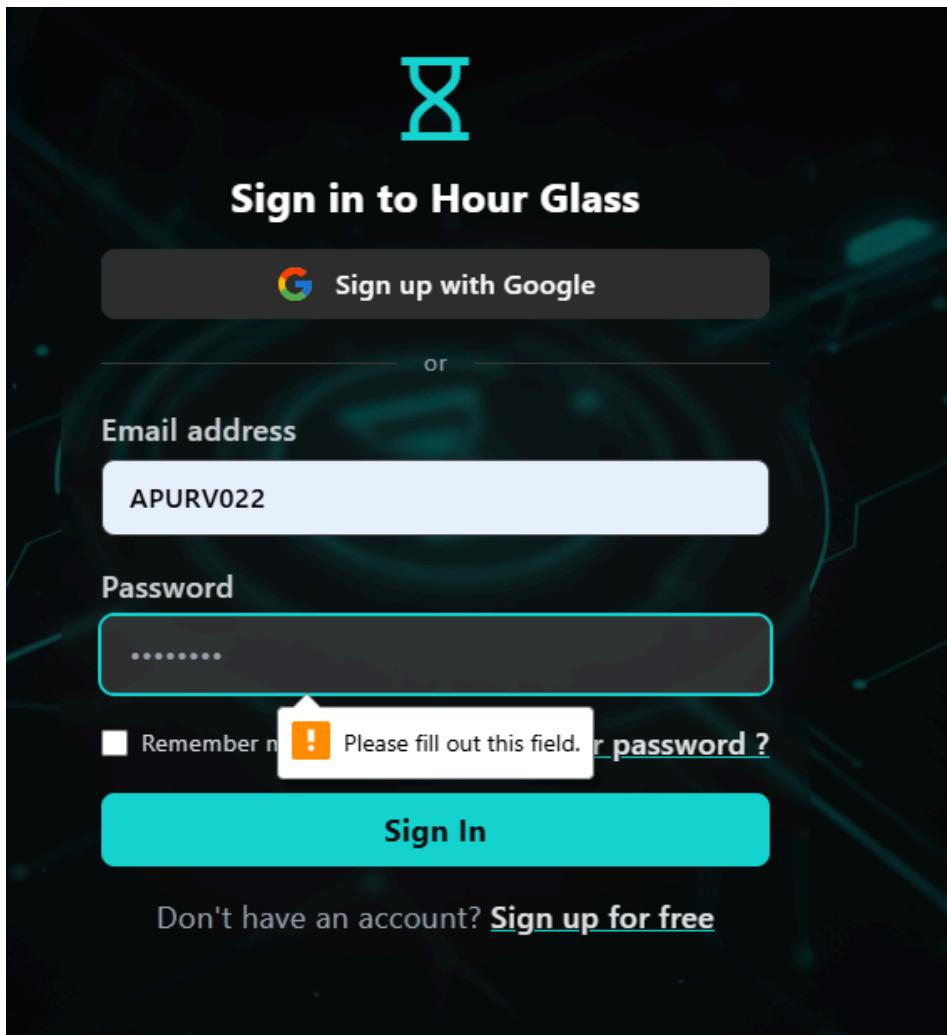**Output :** Invalid

5.
Email address or username : abc@user.com
Password :
Output : Invalid

Project section

6. Owner attempts to add a member who is not registered in the app.
Email : xyz@user.com
Output : Invalid