

## Test Scenarios & Test Cases

### Epic 1: Onboarding & Account

TS-01: Verify user can register using email and password

TC-01-01: Valid Registration

- Precondition: User is on registration page
- Steps:

1. Enter name: "Ana Malik"
2. Enter email: "ana@melp.com"
3. Enter password: "Pass@123"
4. Click "Register"

- Expected: Account created, confirmation shown, redirected to dashboard

TC-01-02: Invalid Email Format

- Precondition: User is on registration page

- Steps:

1. Enter name: "Ana Test"
2. Enter email: "invalid-email"
3. Enter password: "Pass@123"
4. Click "Register"

- Expected: Error message "Invalid email format"

TC-01-03: Weak Password Validation

- Precondition: User is on registration page

- Steps:

1. Enter name: "Ana Test"
2. Enter email: "ana.test@melp.com"
3. Enter password: "123"
4. Click "Register"

- Expected: Error message "Password must be at least 8 characters"

TS-02: Verify user can register using Google account

TC-02-01: Google OAuth Registration

- Precondition: User is on registration page

- Steps:

1. Click "Sign up with Google"
2. Select Google account
3. Grant permissions

- Expected: Account created using Google profile, redirected to dashboard

TS-03: Verify user can log in with valid credentials

TC-03-01: Login with Email & Password

- Precondition: User has registered account

- Steps:

1. Navigate to login page
2. Enter registered email
3. Enter correct password
4. Click "Login"

- Expected: Successful login, redirected to dashboard

**TC-03-02: Login with Invalid Password**

- Precondition: User has registered account
- Steps:
  1. Navigate to login page
  2. Enter registered email
  3. Enter wrong password
  4. Click "Login"
- Expected: Error message "Invalid credentials"

**TS-04: Verify user can log out**

**TC-04-01: Logout from Web**

- Precondition: User is logged in
- Steps:
  1. Click profile icon
  2. Select "Logout" from menu
  3. Confirm logout if prompted
- Expected: User logged out, redirected to login page

**TS-05: Verify user can update preferences**

**TC-05-01: Update Time Zone**

- Precondition: User is logged in
- Steps:
  1. Go to Settings → Preferences
  2. Select Time Zone dropdown
  3. Choose "GMT+5:30 (IST)"
  4. Click "Save"
- Expected: Time zone updated, success message shown

**Epic 2: Chats & Collaboration**

**TS-06: Verify user can start a 1:1 chat**

**TC-06-01: Start Chat with Contact**

- Precondition: User is logged in, has contacts
- Steps:
  1. Navigate to Contacts
  2. Select contact "Jane Doe"
  3. Click "Message"
  4. Type "Hello, testing"
  5. Press Send
- Expected: Chat opens, message sent, appears in history

**TC-06-02: Start Chat with Non-Contact User**

- Precondition: User is logged in
- Steps:
  1. Click "New Chat"
  2. Search for user by email
  3. Select user from results
  4. Type message and send
- Expected: New chat created with selected user

TS-07: Verify user can create group chat

TC-07-01: Create Group with Multiple Users

- Precondition: User is logged in, has multiple contacts

- Steps:

1. Click "New Group"
2. Enter group name: "Project Alpha"
3. Select 3+ users
4. Click "Create"

- Expected: Group created, chat window opens with all members

TS-08: Verify message sending/receiving

TC-08-01: Send Text Message

- Precondition: In a chat window

- Steps:

1. Type message: "Meeting at 3 PM"
2. Press Enter

- Expected: Message appears in chat with timestamp

TC-08-02: Receive Message

- Precondition: User is logged in, another user sends message

- Steps:

1. Wait for notification
2. Open chat

- Expected: New message visible, unread indicator clears

TS-09: Verify search within chats

TC-09-01: Search for Existing Message

- Precondition: Chat has existing messages

- Steps:

1. Open chat window
2. Click search icon
3. Enter keyword "deadline"
4. Press Enter

- Expected: Messages containing "deadline" are displayed

TC-09-02: Search with No Results

- Precondition: Chat has messages

- Steps:

1. Open chat window
2. Click search icon
3. Enter "nonexistentword"
4. Press Enter

- Expected: "No results found" message

Epic 3: Calls & Meetings

TS-10: Verify user can start audio call from chat

TC-10-01: Start Audio Call

- Precondition: In a 1:1 chat

- Steps:
  1. Click phone icon in chat header
  2. Allow microphone access
  3. Wait for connection
- Expected: Call starts, other user receives notification

TC-10-02: Start Audio Call from Contact List

- Precondition: User is in contacts view
- Steps:
  1. Select contact
  2. Click phone icon next to contact
  3. Allow microphone access
- Expected: Call initiates to selected contact

TS-11: Verify user can start video call

TC-11-01: Start Video Call from Chat

- Precondition: In a 1:1 chat
- Steps:
  1. Click video camera icon
  2. Allow camera and microphone access
  3. Wait for connection
- Expected: Video call starts, both video feeds visible

TS-12: Verify user can receive/join calls

TC-12-01: Accept Incoming Call

- Precondition: User receives call notification
- Steps:
  1. Click "Accept" on call notification
  2. Allow permissions if prompted
- Expected: Call connected, audio/video active

TC-12-02: Reject Incoming Call

- Precondition: User receives call notification

- Steps:
  1. Click "Reject" on call notification
- Expected: Call ended, notification dismissed

TS-13: Verify meeting scheduling

TC-13-01: Schedule Meeting from Calendar

- Precondition: User is logged in
- Steps:
  1. Go to Calendar
  2. Click "New Meeting"
  3. Enter title: "Team Sync"
  4. Set date/time (tomorrow 10:00 AM)
  5. Add 3 participants
  6. Click "Schedule"
- Expected: Meeting created, invites sent to participants

TC-13-02: Join Scheduled Meeting

- Precondition: User has meeting invite
- Steps:
  1. Open Calendar
  2. Click on scheduled meeting
  3. Click "Join"
- Expected: Meeting room opens, user joins call

TS-14: Verify moderator can start AI summarization

TC-14-01: Start Recording with AI Summary

- Precondition: Moderator is in a meeting
- Steps:
  1. Click "More options" (⋮)
  2. Select "Start recording"
  3. Enable "AI Summary"
  4. Conduct meeting for 5+ minutes
  5. Stop recording
- Expected: Recording saved, AI summary generated and available

Epic 4: Melp Drive

TS-15: Verify user can access Melp Drive

TC-15-01: Open Drive from Main Menu

- Precondition: User is logged in
- Steps:
  1. Click "Drive" icon in sidebar
- Expected: Drive opens showing files/folders

TS-16: Verify file upload

TC-16-01: Upload Supported File (PDF)

- Precondition: User is in Melp Drive
- Steps:
  1. Click "Upload" button
  2. Select "document.pdf" (2MB)
  3. Click "Open"
- Expected: File appears in Drive, progress bar shown, success message

TC-16-02: Upload Unsupported File Type

- Precondition: User is in Melp Drive

- Steps:
  1. Click "Upload"
  2. Select "script.exe" (executable file)
  3. Click "Open"
- Expected: Error message "File type not supported"

TC-16-03: Upload Large File

- Precondition: User is in Melp Drive

- Steps:
  1. Click "Upload"
  2. Select "large\_video.mp4" (150MB)
  3. Click "Open"

- Expected: Progress indicator, timeout or warning for large size

TS-17: Verify document creation

TC-17-01: Create New Document

- Precondition: User is in Melp Drive

- Steps:

1. Click "New" → "Document"
2. Enter title: "Project Plan"
3. Type content
4. Click "Save"

- Expected: Document created, appears in Drive

TC-17-02: Create New Spreadsheet

- Precondition: User is in Melp Drive

- Steps:

1. Click "New" → "Spreadsheet"
2. Enter title: "Budget Q4"
3. Add data to cells
4. Click "Save"

- Expected: Spreadsheet created, appears in Drive

TS-18: Verify file sharing

TC-18-01: Share File with User

- Precondition: File exists in Drive

- Steps:

1. Select file
2. Click "Share"
3. Enter user email: "team@melp.com"
4. Set permission: "Can view"
5. Click "Send"

- Expected: Sharing notification sent, file appears in recipient's shared folder

TC-18-02: Share File with Edit Permission

- Precondition: File exists in Drive

- Steps:

1. Select file
2. Click "Share"
3. Enter user email: "editor@melp.com"
4. Set permission: "Can edit"
5. Click "Send"

- Expected: User receives edit access, can modify file

Total Test Cases: 34

Coverage: All in-scope user stories

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Date: 19/12/25