**Google Duo**

Product specification:

Google Duo is an android app mostly for making voice/video calls or send voice/video messages to the persons from user’s contact list.

Test Strategy and types:

1. UI testing
2. Smoke/Sanity
3. Functional testing
4. Install/Uninstall testing
5. Network testing
6. Load testing
7. Performance testing
8. Compatibility testing

Risk and issues:

1. Environment and server issues.
2. Internet issues.
3. Sudden major bugs while testing.
4. Natural calamities.

Test logistics:

Test duration: The testing will be done within 7-10 working days.

Test team: There will be at least 3 to 4 members to test the app. Additional 1 member on hold for emergency.

Test timing and release: The development will be finished within 31st August. Testing will begin on 1st of September and will be done by 9th September. Any major issue raised by that time will be fixed and tested by 12th September and handed over to the higher authority. Other minor issues will be prioritized and carry forwarded to the next releases according to the decision of the higher authority.

Major Functionalities to test:

* Set up Duo
  + Set up Duo with mobile number
  + Mobile number verification
* Search bar
  + Menu on the search bar-Settings, Invite friends, Help & feedback
  + Searching from contact list
* Create group
  + Search functionalities
  + Recent contacts with checkbox
  + Contacts list with checkbox on right
  + After checking a checkbox Done button appears
  + Functionalities after clicking Done
* Invite friends
  + Search bar functionalities
  + Contacts list with Invite buttons on the right
  + Click Invite functionalities
* Contacts to show on screen
  + Floating search bar
  + Functionalities after clicking on a contact
* Contact screen-
  + Menu button
    - Block user
    - Delete Duo history
    - Send feedback
  + Voice call
  + Video call
  + Message
    - Voice message
    - Video message
      1. Record video
      2. Choose video from gallery

Test cases:

1. Validate Voice call functionalities.

* Login with valid mobile number
* Select a contact
* Click on Voice call option from bottom left
* Validate that
  + - Voice call is working properly
    - Voices are clear on both sides
    - Leave voice message option is there
    - After clicking on voice message option- voice message functionalities work correctly

1. Validate Video call functionalities.

* Login with valid mobile number
* Select a contact
* Click on Video call option from bottom
* Validate that
  + - Video call is working properly
    - Video is clear from both sides
    - Voice is clear with video

1. Validate Voice message functionalities.

* Login with valid mobile number
* Select a contact
* Click on message option from bottom right
* Choose Voice message option
* Validate that user can
  + - Record a voice message
    - Listen to the recorded message
    - Send the voice message
    - Cancel recorded message

1. Validate Record Video message functionalities.

* Login with valid mobile number
* Select a contact
* Click on message option from bottom right
* Choose Video message option
* Validate that user can
  + - Record a video message
    - Preview the recorded message
    - Send the video message
    - Cancel recorded video message

1. Validate Video message (choose from gallery) functionalities.

* Login with valid mobile number
* Select a contact
* Click on message option from bottom right
* Choose Video message option
* Click on gallery from bottom right
* Validate that user can
  + - Select a video from gallery
    - Preview the video
    - Send the video
    - Cancel video