# Slack

# By Hridyesh Singh Bisht (18070124030) [IT-2]

**Aim:** To describe functionalities of Slack, an online messaging application.

**Problem Statement:** Slack is a messaging app for businesses that connects people to the information that they need.

**Scope:** By bringing people together to work as one unified team, Slack transforms the way that organizations communicate. The following features are the primary ones,

1. Channels bring clarity to work, you can create them for every project, topic, or team. When there's a channel for everything, you can focus on the conversations and work that matters most to you.
2. Slack Connect transforms the way you work alongside your partners, vendors, or customers by moving conversations out of siloed email threads and into the same place.
3. Built-in voice and video calls are great, but Slack works with other tools, too. Instantly start meetings or join calls without leaving your Slack conversations by connecting your video conferencing service of choice.

**Limitations:**
1. No feature to contact a member of outside organization or workspace,
2. Limited storage and features for free service

**System Functions:**

Slack is a messaging app for businesses that connects people to the information that they need. It gives users access to tools focused around communication services like voice and video calls, persistent chat channels in a workspace, and integrations with other services along.

1. Registration:

    a. Signup: For new users, there will be a signup module is built that contains a name, age, captcha, and password to create an account in the application. There will be a button below this form("Sign Up") after the user clicks the button. The data of the user will be stored in the database.
        i.    Input: Sign-in information
        ii.    Output: if correct then redirected to login page, if wrong then an error message.
    b. Login: For existing users, there will be a login module is built that contains an email id and password along with the feature to show the password. There will be a button below this form("Login") after the user clicks the button. If the user has

been provided the correct fields, it will be verified with the database, when verified the user will login into his account otherwise there will be an error message displayed, conveying the error while logging in.

      i.    Input: login credentials

     ii.    Output: if correct then welcome page, if wrong then an error message.

2. Workspace Module: The main purpose of this module is to create workspaces (Slack communities which are organized into discrete collections of channels ).

1. Create Workspace(Only for the creator of a workspace): The create workspace will take to another screen where it has fields name, type of workspace, type of subscription for the workspace, and a creative workspace button.
   a. Input: Workspace name and rules
   b. Output: Creation of workspace
2. Join Workspace: A workspace can be joined by an invite sent by an existing member of the server.
   a. Input: Join a workspace
   b. Output: Welcome page for the server.

3. Channels: The server will contain the option to add a channel, a channel is created for every project, topic, or team. When there's a channel for everything, you can focus on the conversations and work that matters most to you. The users in the server can communicate in the channels, it has options to send messages to the channel, send files, send stickers, send emojis.

1. Create Channel(Only for the creator of a workspace): The create channel will take to another screen where it has fields name, type of channel,  and a creative channel button.
   a. Input: channel name and rules
   b. Output: Creation of channel
2. Join Channel: A channel can be joined by an existing member of the server.
   a. Input: Join a channel
   b. Output: Welcome text for the channel.

4. User profile: This module is used by the user to make changes to his profile. Towards the top right corner of the screen, after clicking on the menu and edit your profile option. It will contain fields used while creating the account ( name, what i do, pronouns, phone number and time zone). It also has an added image with which used to set a pic as a profile pic.

1. Update Profile: The create channel will take to another screen where it has a name, what I do, pronouns, phone number,time zone, and an update profile button.
   a. Input:  name, what I do, pronouns, phone number and time zone
   b. Output: Updating a profile with new information.

5. Chat/ Call: The chat module is used in the workspace, it has options to send personal messages /files/stickers/emojis to the members of the particular workspace Also, the messages send in the channel will be selectable to copy, report, edit, reply, delete.

1. Input:  Type of way of communication chat, call and video call
2. Output: A successful medium of communication.