

# Human Computer Interaction

## Title: Advanced To-do List

### Team name:

HCI\_0305\_1716\_1829\_1995

### Team Members:

Manohar D	PES1201800305
Jagadish Rathod	PES1201801716
Srujan KN	PES1201801829
Sumukha MK	PES1201801995

# Need Finding

# Problem Domain - Visual To-do List



Have you ever missed out your most important meeting because, you had to do too many tasks that day

Have you ever lost handwritten todo lists?

But after using our product you won't!!

Our advanced todo application takes voice input from the user and schedules the tasks accordingly. Just like amazon echo. The tasks will be scheduled easily within a jiffy and in an intuitive manner xD



# Methodology

- Decide on the interviewee(s)
- Design the questions
- Conduct Interviews
- Analyze and formulate the insights gained from the Interviews

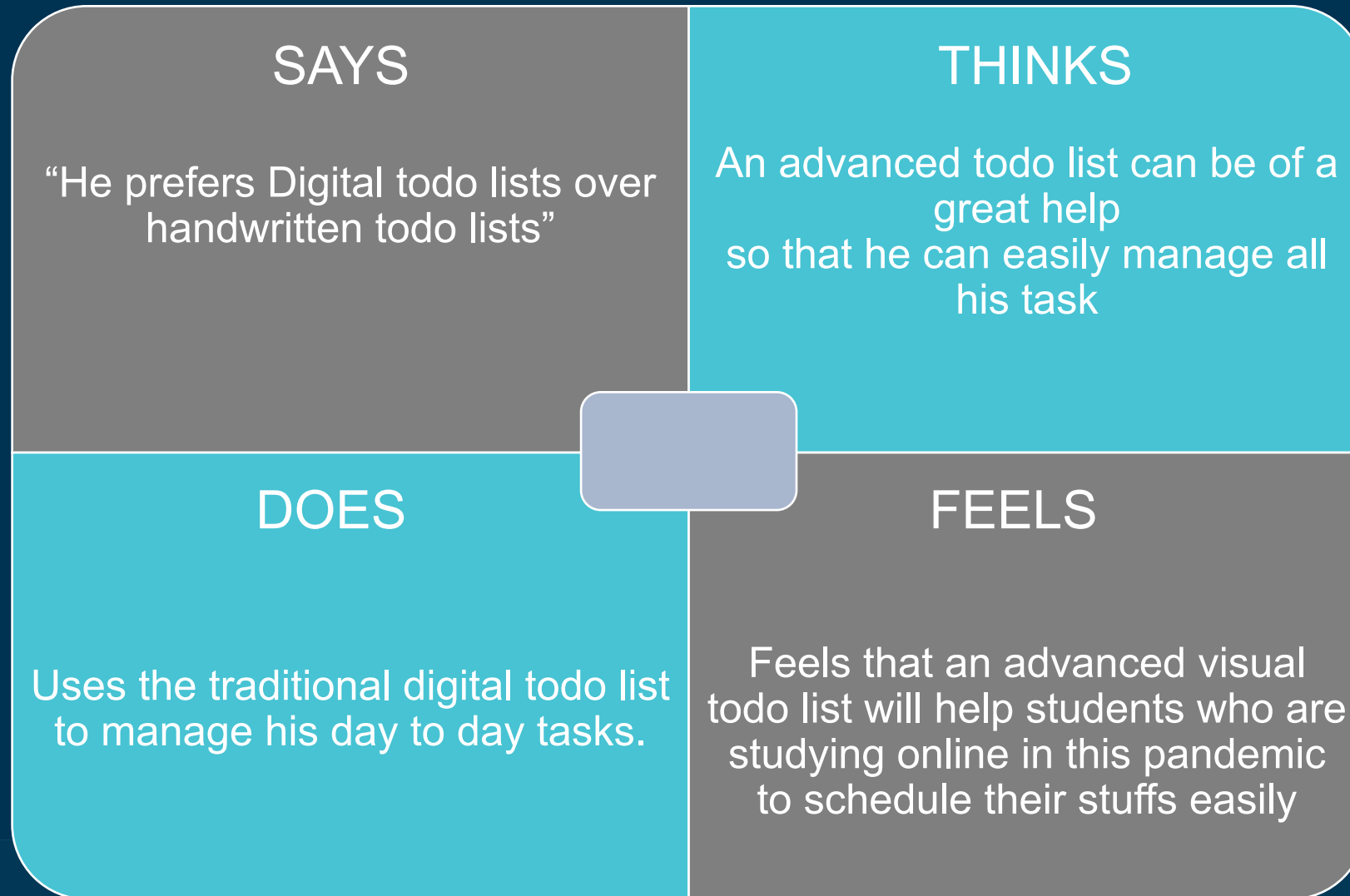
# Interviewee - 1

- Mahanash
- Bio-Tech Student ,PES University

# Questions

1. Do you use todo lists? If yes what do u prefer
2. Do you think you would prefer digital lists if a good standalone product/app comes into market
3. Anything you wanna say regarding this product (Drawback/Advantages/ Feedback anything )

# Empathy Map



# Interviewee - 2

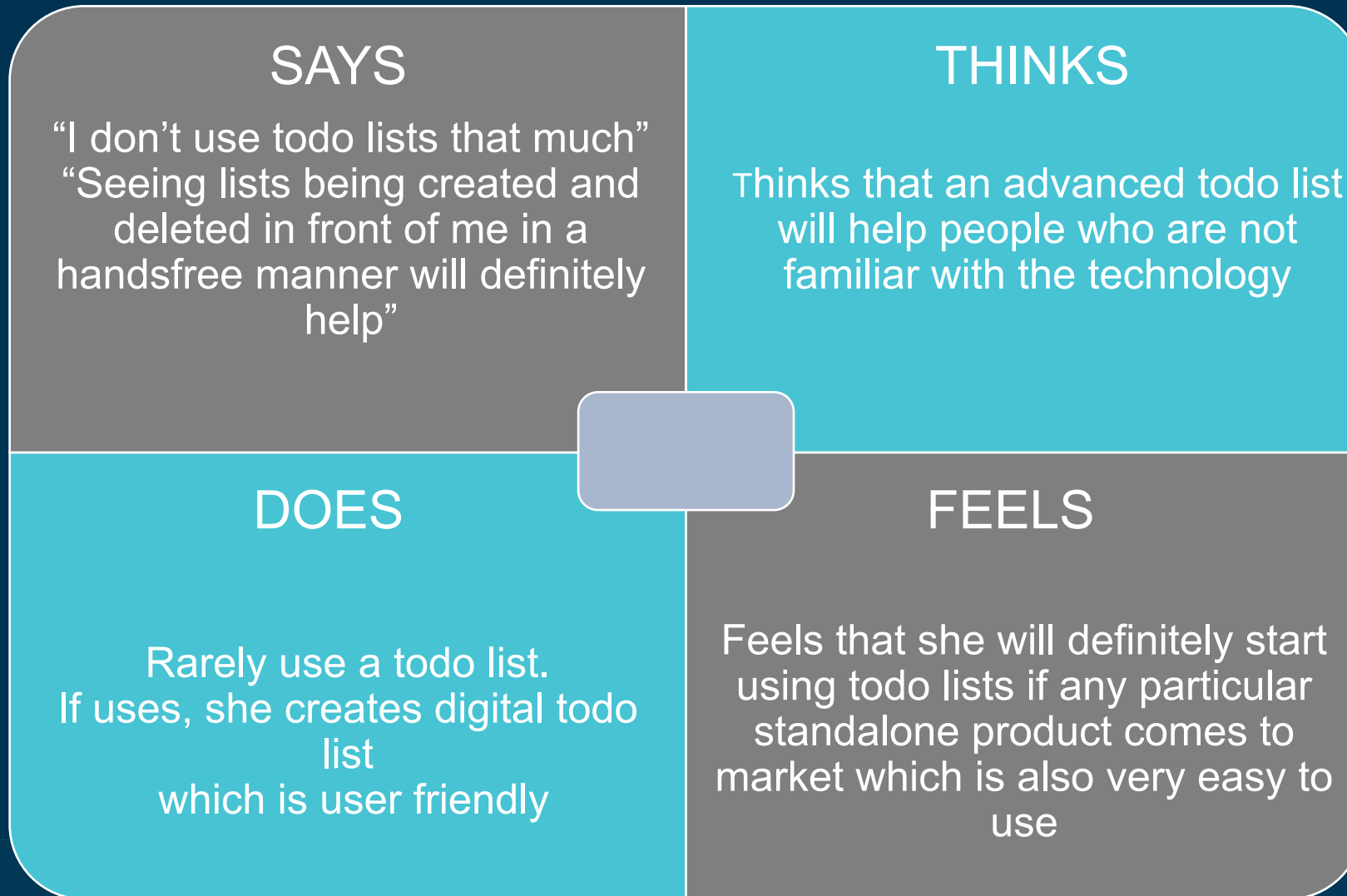
- Sambhrama R
- SE @ Accenture



# Questions

1. Do you use todo lists?
2. Do you think "seeing" lists being created and deleted in front of you is better than just voice controlled todo lists(implemented in google home for eg)
3. On a scale of 1 to 5 do you think this will help out people who doesn't know to use smartphones, since voice can only be served as main source of input.
4. Anything you wanna say regarding this product (Drawback/Advantages/ Feedback anything )

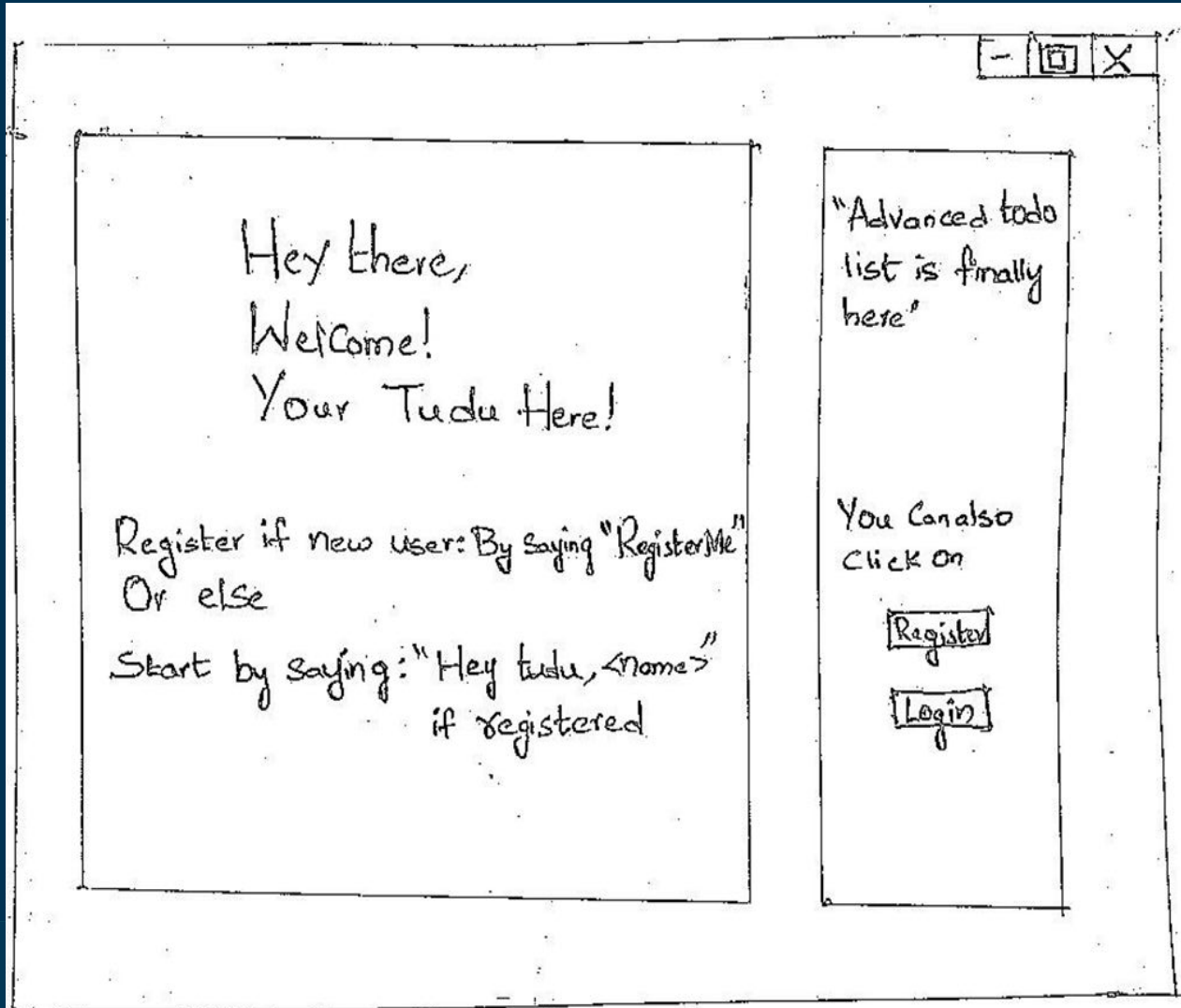
# Empathy Map



# Low - Fidelity Prototype

# Title

## Screen shot



This is the home page interface of our application.

Here the user for registering can do manually by click on register option or can register saying "Registerme".

Registered user can simply login by saying "Hey,tudo<user\_name>"

Login section redirects to new interface where the user credentials needs to be provided.

# Title

## Screen shot

A hand-drawn sketch of a 'Sign Up' form. The title 'Sign Up' is at the top left. Below it are three input fields labeled 'User Name', 'Email id', and 'Password'. To the right of the 'Register Your Voice' text is a small square icon containing a microphone symbol. At the bottom left is a button labeled 'Done', followed by the text 'or say "done"'.

## Explanation

After users say register command he will be redirected to new signup window.

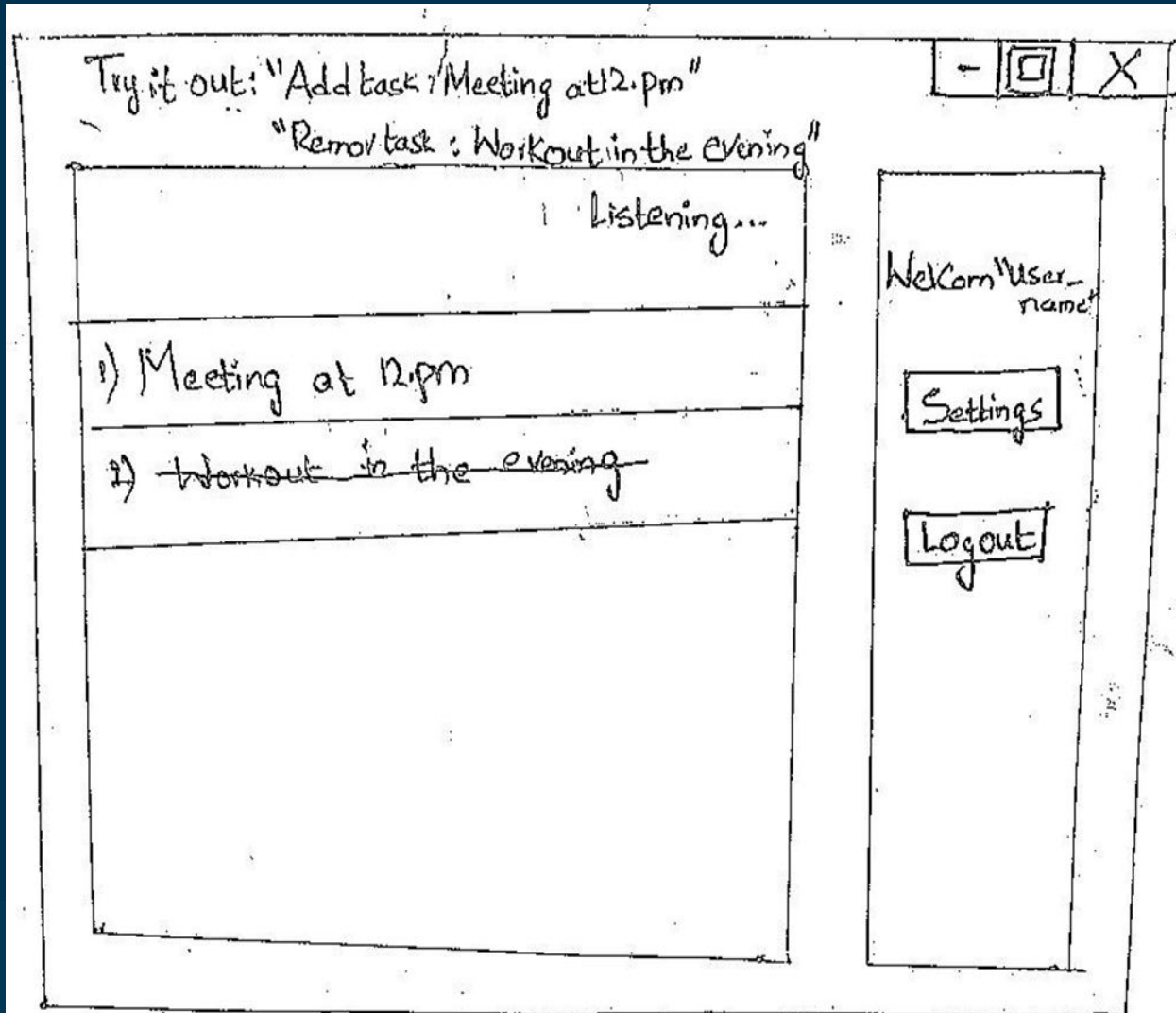
Signup section has UserName,Email Id ,password and register voice

Register voice option to recognise the voice of user so that unauthorised user cannot use this application.

User can submit details either by clicking done option or saying "done"

# Title

## Screen shot



## Explanation

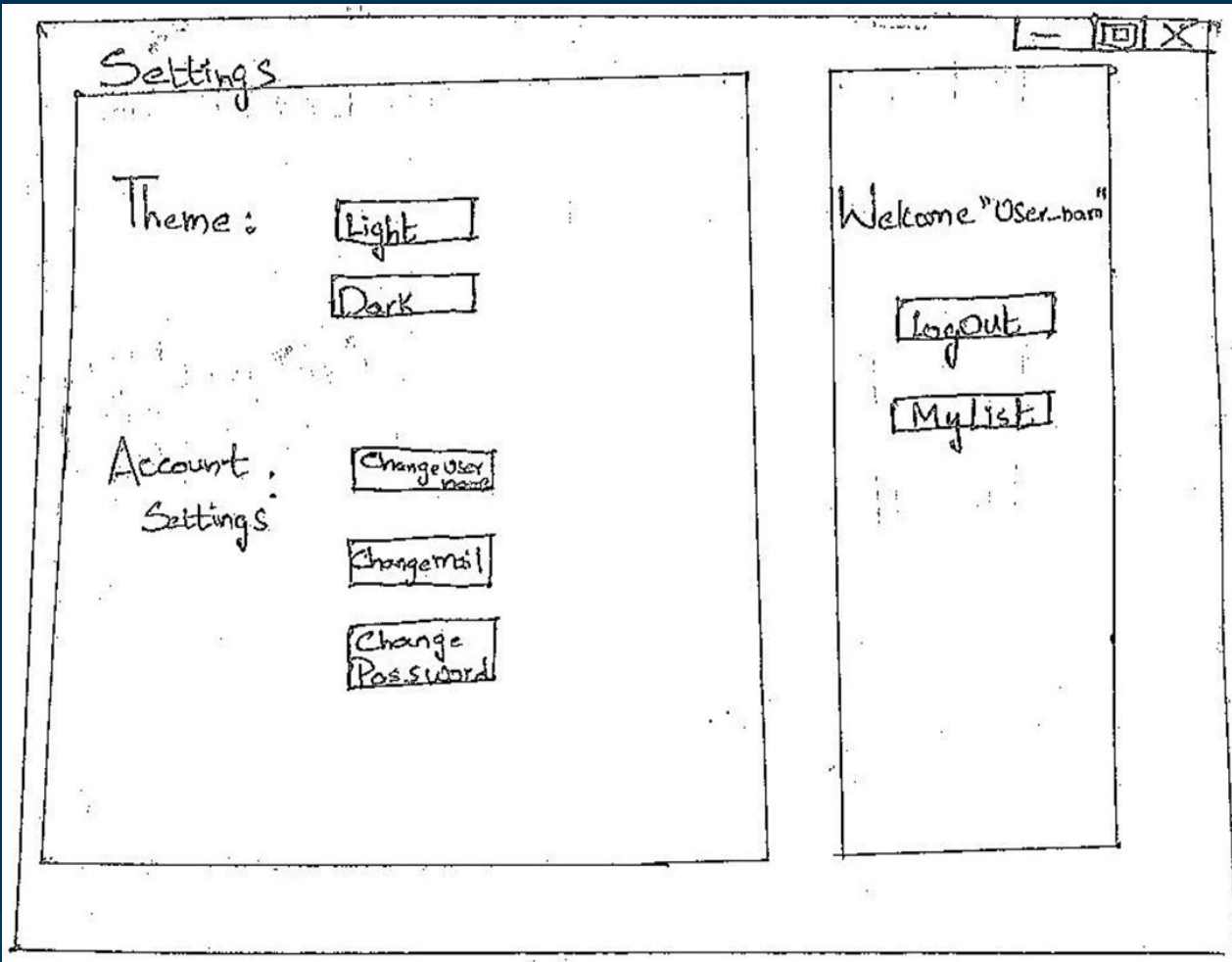
After user log in he will be redirected to new interface as shown in the figure.

Now user can create or delete task by saying "Add task or delete task"

Logout option is provided to user for signing out

# Title

## Screen shot



## Explanation

This is the setting page for user to change it to either dark mode or light mode

Account settings option to change user credentials.

# High - Fidelity Prototype



*"Advanced todo list is  
finally here"*

You can also click on

Register

Login

This is the Welcome page of our application  
Here user can start Registering or Login by  
clicking the button

Visual To-do list is an application which shows  
how an user adding new tasks, meeting  
schedules and also important schedules of  
daily life

There will be different categories for different  
tasks we can add the task into corresponding  
category

so it will be easy to search and View

# Sign Up

User Name

Email id

Password

Register  
your voice



Tap on voice icon and try saying these sentences:

"Hey Tudu , <your name> here"

"Add task : Attend meeting at 8 pm"

"Delete task : Watch Champions League at 1 a.m

Done

Or say "done"

This is the Sign Up page of our application

user can Tap on Voice icon and start to register by saying these sentences:

"Hey Tudu, Jagadish here"

like that e can provide required details

Visual To-do List this application useful in work scheduling , team setting as well as for Family and home use

Try it out : "Add task : Meeting at 12 p.m"  
"Add task : Workout in the evening"



Listening...

Attend HCI Project Presentation in the afternoon!

Watch IPL in the evening

Complete Capstone Project by tonight

Welcome Ashok!

Settings

"Go to settings"

Log Out

"Log Out"

This page shows the demonstration for one of the feature in our application

That is user can add or create a new task by Saying sentences the application will listen and add new tasks to it's list.

# Settings

Theme:

Light Mode

Dark Mode

Account Settings:

Change  
username

Change  
email

Change  
password

Welcome Ashok!

Log Out

"Log Out"

My List

"Back to my list"

This is the setting page  
here user can change the  
Theme to Light mode or  
dark mode

In account setting section  
user can change the  
password, email-id and  
also other details

# Heuristic Evaluation

Shneiderman's Eight Golden Rules Will Help You  
Design Better Interfaces

# 1.Strive for consistency

Consistent sequences of actions should be required in similar situations; identical words (understandable) should be used in prompts, menus, and help screens; and consistent commands should be employed throughout.

We have consistent user-interface for all the pages of the application. Identical terms in menu helps in navigating between all the pages.

Ex: Confirmation of adding a task to the list  
like “Hey <username> the task was added successfully”

## 2.Enable frequent users to use shortcuts

As the frequency of use increases, so do the user's desires to reduce the number of interactions and to increase the interaction. Abbreviations, function keys, hidden commands, and macro facilities are very helpful to an expert user.

In our project user's voice can be used to register himself in to the application.Once logged in he can schedule his tasks by just saying :

“Hey Tudu <user name> here,

Add Task : Schedule a meeting tomorrow at 7 pm

Delete Task: RcB match at 7 pm”

### 3. Offer Informative feedback

For every operator action, there should be some system feedback.

Error messages are expressed in plain language, precisely to indicate the problem, and constructively suggest a solution.

If there is any mismatch in the credentials in the authentication to the web application, the respective error messages will be displayed. If the task was added into the schedule successfully

Ex: A bad example we often see is when an error message shows an error-code instead of a human-readable and meaningful message.



## 4.Design dialogue to yield closure

We don't keep our users guessing what will happen in the course of action. The to-do app will display appropriate dialogue messages. In order to make the user feel comfortable with the application.

The informative feedback at the completion of a group of actions gives the operators the satisfaction of accomplishment, a sense of relief, the signal to drop contingency plans and options from their minds, and an indication that the way is clear to prepare for the next group of actions.

Ex: We would like to show only meaningful messages like,

“Task was added successfully at 7pm”

## 5. Offer simple error handling

As much as possible, design the system so the user cannot make a serious error. If an error is made, the system should be able to detect the error and offer simple, comprehensible mechanisms for handling the error.

If the user's voice is not audible we would like to show him a pop in message saying that

“Hey <username> please talk loudly your voice is not audible for tudu xD”

## 6. Permit easy reversal of actions

This feature relieves anxiety, since the user knows that errors can be undone; it thus encourages exploration of unfamiliar options. The units of reversibility may be a single action, a data entry, or a complete group of actions.

Once the error is shown to the user like “Username is already taken” ,user will be permitted to go back and register himself again in the app.If there is a slight chance of the application mal-functioning the user can login once again and restart the application afresh.

## 7. Support internal locus of control

Experienced operators strongly desire the sense that they are in charge of the system and that the system responds to their actions. Design the system to make users the initiators of actions rather than the responders.

Users will be in full control of the application, because only when they provide their credentials they will be able to authenticate the application and the entire application is based on their voice input which clearly indicates that it is in the users' control.

## 8. Reduce short-term memory load

The limitation of human information processing in short-term memory requires that displays be kept simple, multiple page displays be consolidated, window-motion frequency be reduced, and sufficient training time be allotted for codes, mnemonics, and sequences of actions.

Our application being a minimalistic design takes only username, mail-id and voice as user's credentials in order to keep track of the number of users using the application. Hence the user need not remember information from one page to another.



**Thank You**