

Human Computer Interaction Study Case: Voice Controlled Task Management Web App Tool

Done by :-

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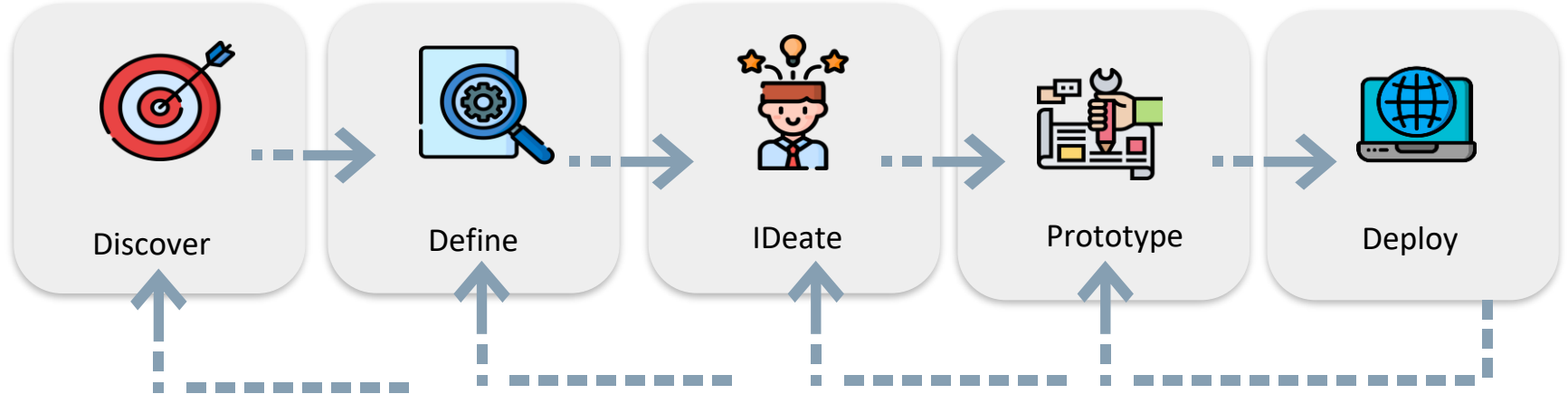
**Conclusion &
Future Work**

01

Design Thinking Process

How to approach problems creatively

01-Design Thinking Process



01.01

Discover stage

Find User Problems

Interviews



Interviewees :
Group Interview of
8 people of
users/not users of
TMA



Questions :

1. Do you write a todo list daily ?
2. How often do you use TMA?
3. Do you accomplish all tasks written in the list?



Analysis of answers :

1. Actual users do not have motivation to use it
2. Non-users do not use it efficiently

01.02

Define stage

Define requirements/ Goals of the design

Main Strategy of the Design



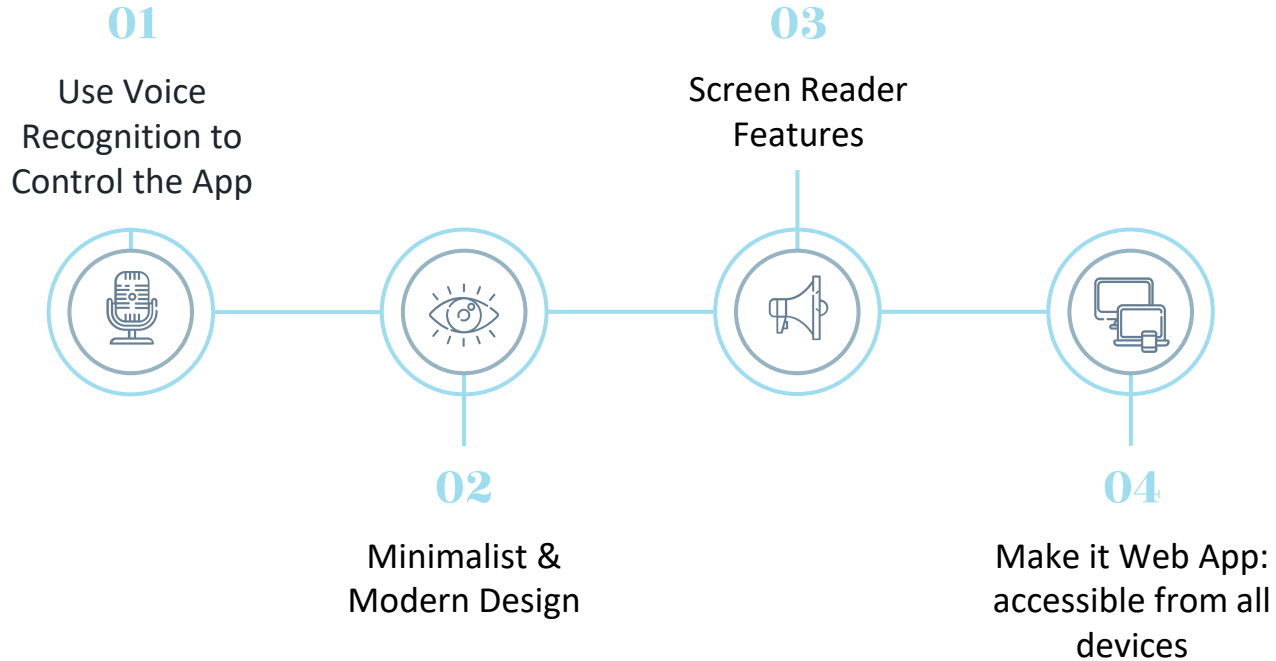
- **Attract User and Non-Users of Time Management Apps**
- **Simple and one-click Design**
- **Keep in mind all types Users**

01.03

Ideate stage

Flare and Focus Method

Final Applied Ideas



01.04

Design & Prototype stage

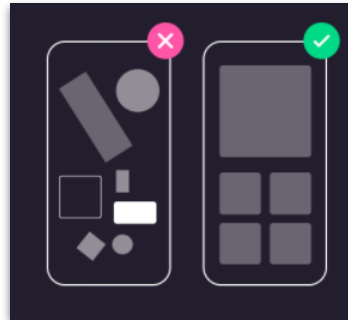
Using Latest Technologies

Designing a Prototype

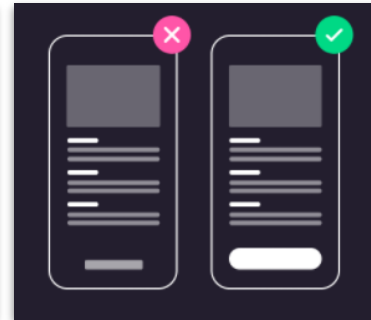
Design Tool



Design Theories



Aesthetic-Usability
Effect

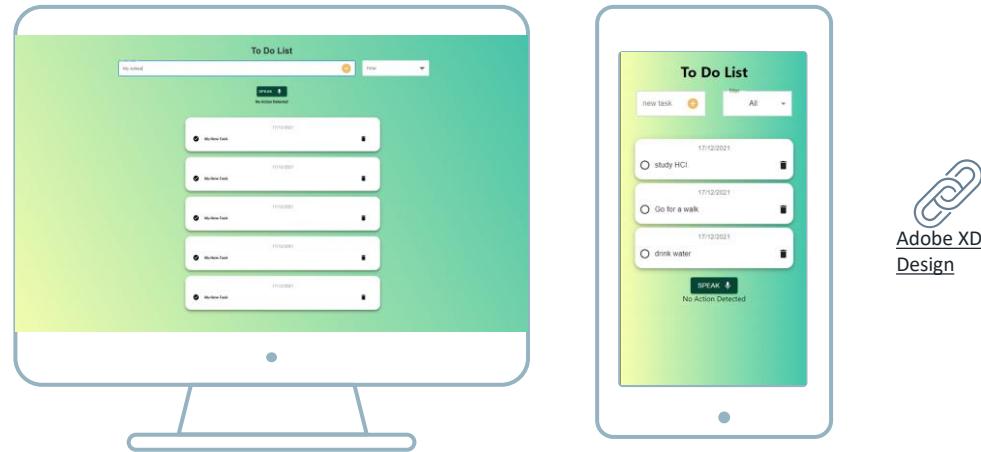


Fitts's Law



Hicks Law

High Fidelity MOCKUPS



Responsive Design for all types of Digital Devices regardless of
Operating system or screen size or compatibility

01.05

Test stage

UX and Functionality Testing

Types of Tests Conducted

Usability

Tested by 10 different
People

Responsiveness

Viewed from 4
different devices

Voice Recognition

Tested by 4 different
People

Accessibility

Using web-based
screen reader

Functionality

Individual & combinations of
functionality tested

Deployment

Test if all previous test work
on the deployed model

03

Development & Deployment

Voice Recognition Using TF model



- 01 Click on the speak button
- 02 Mic capture the command
- 03 Tensorflow model outputs “words”
- 04 Use REACT Hooks to control Webpage

List of Used Libraries & Tools

AI Model

Tensorflow Speech
Recognition Model



TensorFlow.js

Backend & Frontend development



03

Live Demo 

04

Conclusion and future work

What The Future Holds

User Centered

Generate unique features based
on users demands

Integrate

Integrate with other App for seamless
transition and quicker access

Stylus Experience

Add stylus experience and its
related features

THANKS!



Do you have any
questions?