

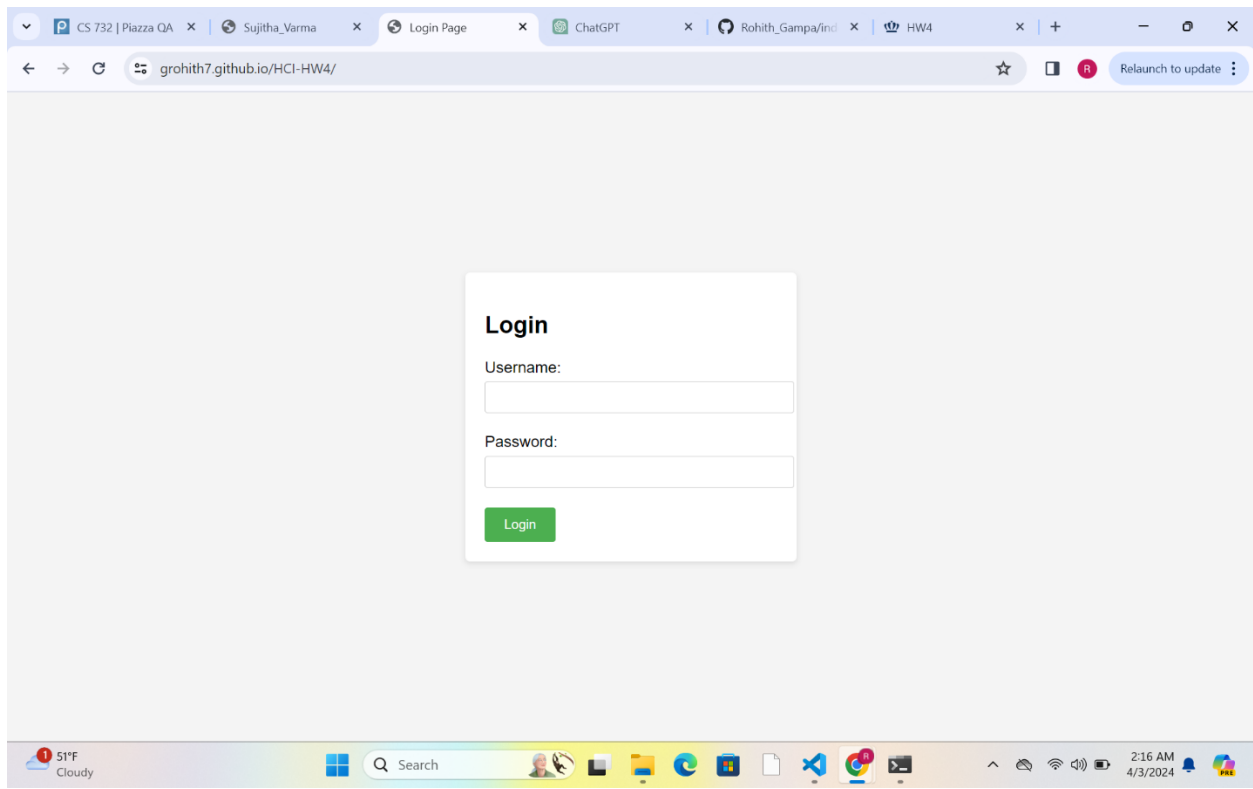
HUMAN COMPUTER INTERACTION

HW-4

TEAM MEMBERS:

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PART-1: Startup Instructions Guide:



If you look at the webpage of what we created it looks like the above picture. As it is a prototype we did not work more on the back end side of the website as to store all the responses and everything. So we can directly click the login button without entering the above username and password and it goes to the next page.




If you see the above picture , this is shown once you click login button so in this page you can see the washing machines showing their status as in-use or ready or out of order and you also have a signout page which once clicked will redirect to the login page again. The left side top side you can see a balance column showing the balance in your account in order to use the laundry machines. Once you are out of balance you can refill the amount using the plus symbol present over there.

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Payment



Credit/Debit Details

Card Number:

Expiry Date:

CVV:

ZIP Code:


Submit Payment

Billing Address

Address Line 1:

51°F Cloudy

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2:17 AM 4/3/2024

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ZIP Code:

Submit Payment

Billing Address

Address Line 1:

Address Line 2:

City:

State:


Country:

ZIP Code:

Submit Address

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As you see the above pictures, these are shown when you click on the plus symbol in the balance box. You can enter the debit/credit details in it and also billing address of the card and then when you submit the above details you have the option to load the amount you required. The above pictures are just the reference / prototype of our solution.

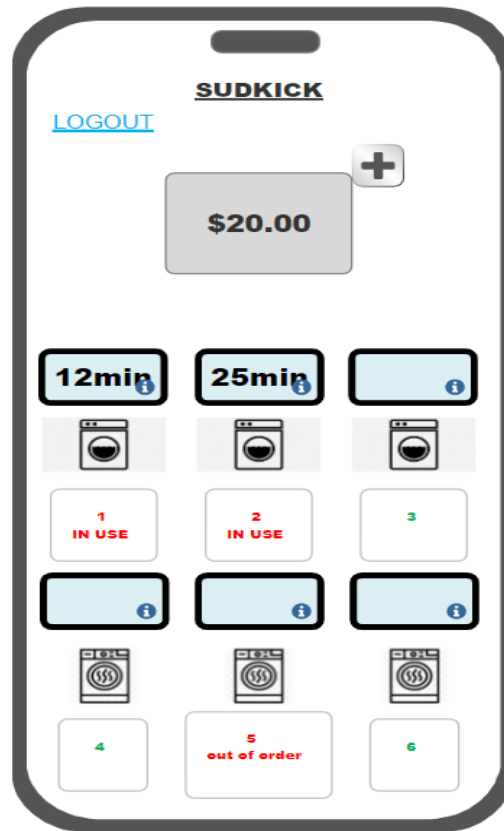
PART-2: BRIEFING FROM HW-3:

For this assignment, I have chosen my previous hw-2 assignment problem scenario to build a wireframe. The problem I have chosen for hw-2 was students finding difficulties in the laundry room in the university dorms. Problem I have observed is that students are not notified as how many machines are working? How many machines are being used right now? How many machines are having clothes which have clothes in it but their laundry is done? To get rid of this problem university can come up with a solution of building a app where students are updated with all of the information of all the machines that are currently working, machines that are currently out of order and machines which are doing laundry and takes this amount of time to complete. The app must also include an alarm, or a beep sound every 10minutes if you kept your clothes in laundry as one must take it out in order for the other person to use. If the machines are out of order the machine needs to send a notification to the person maintaining it very often with regular intervals because it is usually done and checked in the monthly maintenance. Below is a wireframe I designed to solve this problem.

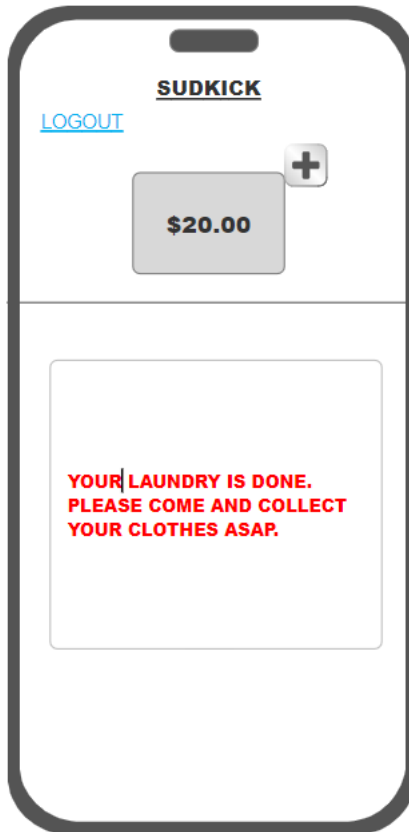
The wireframe shows a mobile app interface for 'SUDKICK'. It features a login screen with the following elements:

- Header:** The word 'SUDKICK' is centered at the top.
- Form Fields:** There are two input fields. The first is labeled 'User Name' and the second is labeled 'Password'.
- Buttons:** Below the input fields are two buttons: 'LOGIN' and 'SIGNUP'.

This will be the login page of the app where if you are a new user, you need to sign up in order to create a account. If you are a returning user, you need to type in your account username and password and then click login which eventually takes you to the app interface.



Once you are logged in, the interface looks pretty much like this. The top part is where you can see the logout button where you can click and logout whenever you require. Next comes the balance in your account which is used to do laundry. If you want to add funds just you can click on the plus symbol add debit or credit card and then load the money which you want. Below are the washing machines and the dryers numbered from 1 – 6 and each and every machine shows the time in which the machine gets done with its work and also you can see the machines which we can use and which are out of order. By this a person who is far away from the laundry room can check his app and know if he can do the laundry at this moment or not.



The above is when you finish your laundry. You get a alert from the app stating “your laundry is done. Please come and collect the clothes asap.

Persona:

Name: Albert


Age: 23

Occupation: Graduate student at VMASC

Goal: Albert wants his laundry to be done smooth without any frustration.

Him

age: 23
residence: 1049 W 49th street apt 5
education: Masters in computer science
occupation: Graduate assistant at VMASC
marital status: Single



A quote from to help define their voice and personality.

A quick summary of behaviors and practices like how he/she spends their day.

Comfort With Technology

INTERNET

SOFTWARE

MOBILE APPS

SOCIAL NETWORK

Criteria For Success:

What's needed in order to make him or her feel successful.

Needs

- These should be required
- This might be Spanish localized content
- Support from higher ups

Values


- Qualities that he or she values
- High level planning is an example

Wants

- Wants are something that is not required but delights
- This might be the holy grail feature
- It delights him or her with its simplicity or completeness

Fears

- Fears are the things that keep him or her up at night
- This might be something like failure
- But might also have to do with real fear



Task Scenarios:

1. Albert wants his laundry to be done smooth without any frustration.

Use Case:

Title: Laundry

Actors: Albert

Description: Albert downloads the sudkick app. As he is a new user he signs up and creates a new

account and then when he logs in he can see the interface with the machines having timers and status on it. According to that albert can plan himself doing his laundry without any moments of frustration.

Interviewee:

I interviewed a albert who's 23 years old student who is currently doing his masters in the field of computer science. I once went into the laundry room to check if the machines were empty where I saw him coming of the laundry room with a bit of frustration on his face. I cared to ask him the reason for that and his reply was "I stay in 3rd floor to the other corner of the building and laundry room is on the other side of the building. I have been busy with my work and part time and been trying to do my laundry since two days in my free time but every time I come here all the machines are filled up and one of the machine is out of order for the past 15 days and when I came today one of them is running and one has done with the laundry but has clothes in it. I then tried to come after some time as I saw the laundry in one machine is about to complete in 15mins, but the situation was same for another 2 hours because the person who did the laundry did not show up to pick his clothes". So by listening to him, I also felt the same when it happened to me and thought I was not alone who is facing difficulties like this. I also chat with couple of other students in the dorm and I got the same response from them and they also faced it once or more in their course of stay. So I decided if the management had come with some upgrades in the app which we are currently using every difficulty felt by the students in particular dorms will be cleared.

- 1) There should be an area in the app where it should show all the people with the app of how many machines are working, how much more time left to the ones that are working to be completed.
- 2) It should show all machines which are out of order and an immediate notification needs to be sent to person managing as an alert. The notification needs to be sent until the issue is resolved.
- 3) The people who are doing their laundry, once the laundry is done, they need to have a buffer time of 15-20 min and then they need to get an alert with a sound every 5/10 min to remove their clothes from particular machine.

HTA- Hierarchical Task Analysis

Use case diagram for proposed system:

