

GUJARAT TECHNOLOGICAL UNIVERSITY

Chandkheda, Ahmedabad Affiliated



L. D. College of Engineering

A
Project Report
On

ARThub

Under subject of
DESIGN ENGINEERING – IIA
B. E., Semester – V
(Computer Engineering Branch)

Submitted by: Group-Id: 393209

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Academic Year

INTRODUCTION

1.1 Design Thinking:

What is Design Thinking?

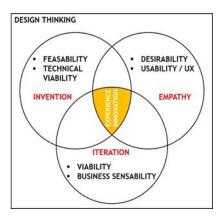
Design Engineering is the best example of critical thinking and solving problem by developing a product which can be the best solution of that problem. Suppose if we saw a problem then we don't think about solving it rather we go and register a complain about it.

- ➤ A cognitive problem-solving process.
- Origins = Edison and other inventors.
- Encourages creative consideration of a wide array of innovative solutions.
- Can be applied to any field, including higher education.
- Approaches challenges from the point of that user's unmet needs.
- A skill that allows a designer to align.
- ➤ What people want with what can be done and produce a viable business strategy that creates customer value and market opportunity.



The given diagram defines the steps to detect the problem and solution of the problem by Design Thinking.

In design thinking we believe that rather waiting for genius to come and show us the way we should try something new on our own! With design thinking, we can build the bridges to cross over the other side to the new land of promised future, so we can reliably manufacture our own miracles.



- > Innovation is iterative and the outcome of series of experiments.
- Effective innovation involves risk-taking, assessment and mitigation.
- > Innovation begins with creativity.
- > Innovation is smooth linear process.
- ➤ Innovation is about risk-taking.
- > Innovation begins with Curiosity.
- > Encourages creative consideration of wide array of innovative solutions.
- > Can be applied to any field, including higher education.
- Approaches challenges from the Point of View (POV) of the end user.
- > Calls for a deeper understanding of that user's emotional needs.

1.2 Objective:

To create an integrated platform which monetarize various factors affecting irrigation such as weather, soil moisture level etc. and its primary aim is water and energy conservation.

ABSTRACT

- ARThub creates a single network of artists and organizers worldwide. ARThub is dedicated platform to where you can promote your talent through network building opportunities and share your events with other art professionals.
- ARThub provides the following exciting features to all categories of users of the system:

For artists:

- Explore worldwide opportunities on the go.
- Build your profile and develop your reputation across the industry.
- Advertise your interest in collaborating, performing and teaching.

For organizers:

- Discover new talent locally and overseas.
- Use the network to organize events and short notice.
- Find artists who are travelling in your neighborhood and available at a time that suits you.

For end-users:

- View amazing artworks.
- Take inspiration and create your own magic.
- Buy art supplies from well-known brands.
- Contact directly with artists for customized orders.

Amazing key features:

Artist search: find artists anywhere in the world

Events: create and publish events to make them visible to your connections or the whole network

Endorsement: endorse your fellow artists by recognizing their talents and skills.

Opportunities: find about all the latest relevant opportunities.

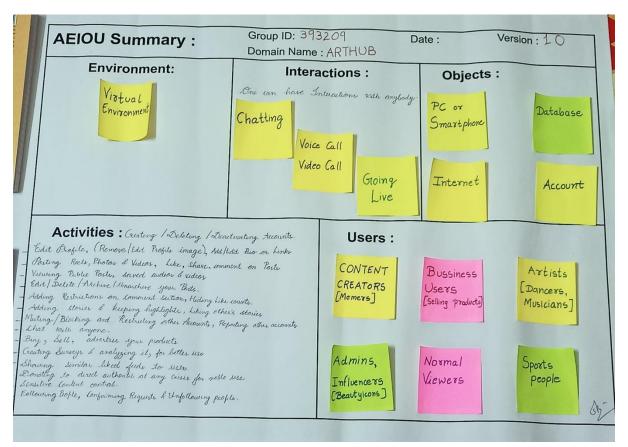
Conversations: chat and save your conversations with your connections.

Profile: share your profile and build your reputation across the network.

AEIOU CANVAS

AEIOU is an investigative tool to help interpret observations gathered by ethnographic practices in the field. It is an Observation tool. Its two primary functions are to code data, and to develop building blocks of models that will ultimately address the objectives and issues of a client.

AEIOU stands for 5 elements to be coded: Activity, Environment, Interaction, Object, and User.



1) Activities:

Activities are goal-directed sets of actions—paths towards things people want to accomplish. What are the modes people work in, and the specific activities and processes they go through?

Activities in our system are:

- 1. Creating/ Deleting/ Deactivating Account.
- 2. Edit Profile.
- 3. Posting Reels, photos and videos, like, share and comment on posts.
- 4. Viewing public posts, save audios and videos.
- 5. Edit/delete/archive/unarchive posts.
- 6. Adding restrictions on comment section/ hiding like counts.
- 7. Adding stories, highlight stories and like others stories.
- 8. Muting, blocking and restricting other accounts. Reporting other accounts.
- 9. Chat with anyone.
- 10. Buy, sell, advertise your products.

- 11. Creating surveys and analyzing it for better use.
- 12. Showing similar liked feeds to user.
- 13. Donating to direct authorities at any crisis for noble use.
- 14. Sensitive content control.
- 15. Following people, confirming requests and unfollowing people.

2) Environment:

Environments include the entire arena where activities take place. What is the character and function of the space overall, of each individual's spaces, and of shared spaces?

Environments in our system are:

1. Virtual Environment

3) Interactions:

Interactions are between a person and someone or something else; they are the building blocks of activities. What is the nature of routine and special interactions between people; between people and objects in their environment, and across distances?

One can interact with anyone in the system.

For interacting following features are provided:

- 1. Voice call
- 2. Video call
- 3. Chatting (Direct messages)
- 4. Going live

4) Objects:

Objects are building blocks of the environment, key elements sometimes put to complex or unintended uses (thus changing their function, meaning and context). What are the objects and devices people have in their environments and how do they relate to their activities?

Objects in our system are:

- 1. PC or Smartphone
- 2. Internet
- 3. Database
- 4. Account

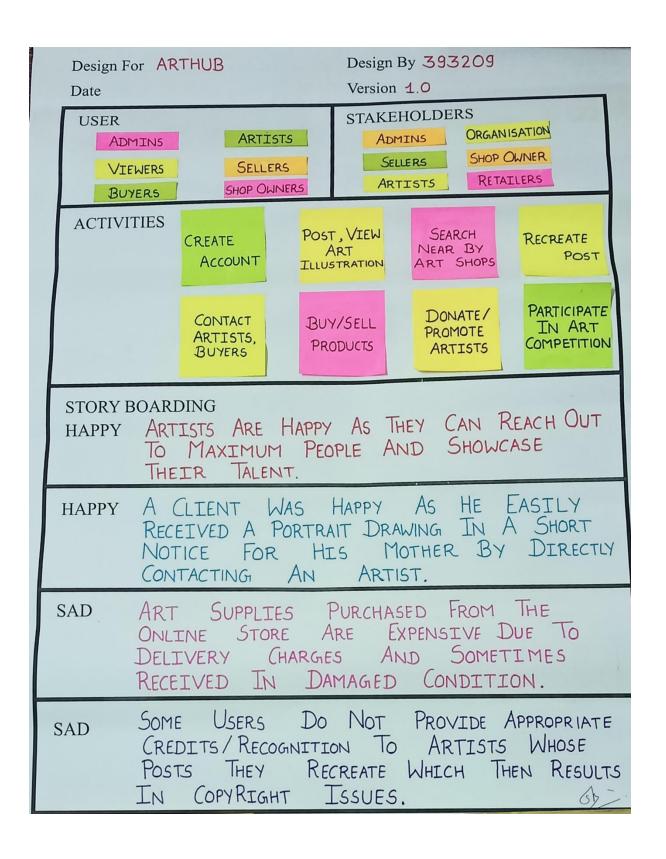
5) Users:

Users are the people whose behaviours, preferences, and needs are being observed. Who is there? What are their roles and relationships? What are their values and prejudices?

Users in our system are:

- 1. Content Creators
- 2. Business Users
- 3. Artists
- 4. Admins

EMPATHY CANVAS



User:

- 1. Admins
- 2. Artists
- 3. Viewers
- 4. Sellers
- 5. Buyers
- 6. Shop Owners

Stakeholders:

- 1. Admins
- 2. Organizations
- 3. Sellers
- 4. Shop Owners
- 5. Artists
- 6. Retailers

Activities:

- 1. Create Account.
- 2. Post, view art illustrations.
- 3. Search nearby art shops.
- 4. Recreate posts.
- 5. Contact artist/sellers.
- 6. Buy/sell products.
- 7. Donate/promote artists.
- 8. Participate in art competitions.

Story Boarding

Happy Story:

Artists are happy as they can reach out to maximum people and showcase their talent.

Happy Story:

A client was very happy as he easily received a portrait drawing in short notice for his mother by directly contacting an artist.

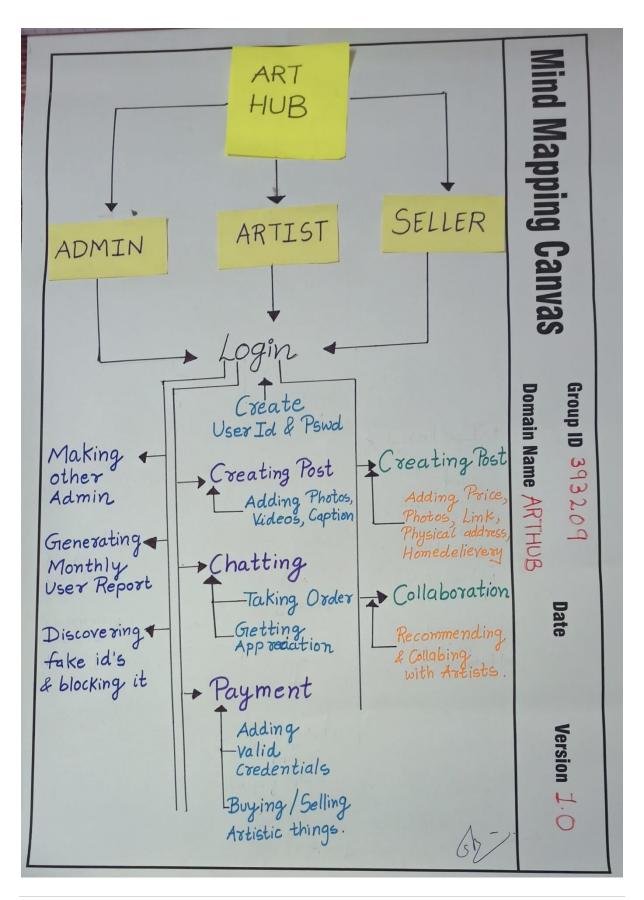
Sad Story:

Art supplies purchased from the online store are expensive due to delivery charges and sometimes received in damaged conditions.

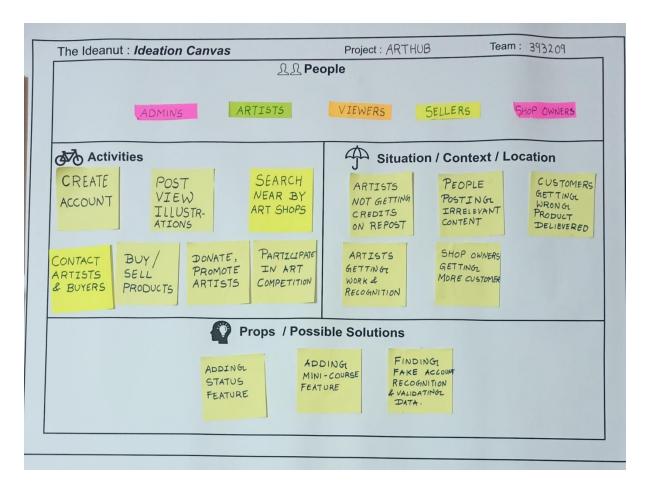
Sad Story:

Some users do not provide appropriate credits/ recognition to artists whose posts they recreate which then results in copyright issues.

MIND MAP



IDEATION CANVAS



People:

- 1. Admins
- 2. Artists
- 3. Viewers
- 4. Sellers
- 5. Shop owners

Activities:

- 1. Create Account.
- 2. Post, view art illustrations.
- 3. Search nearby art shops.
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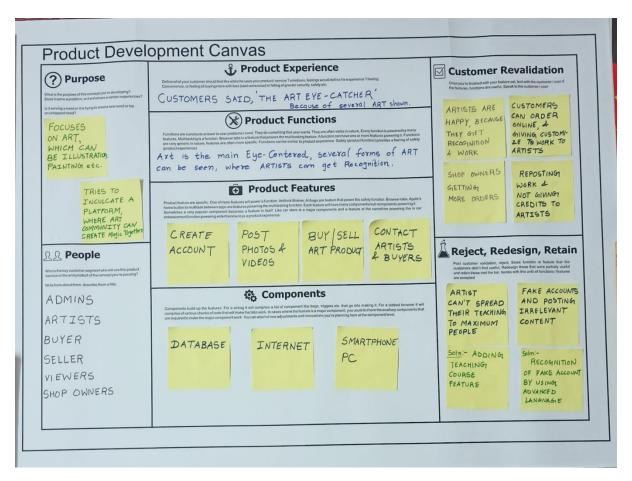
Situation/Context/Location:

- 1. Artists not getting credits on repost.
- 2. People posting irrelevant content.
- 3. Customers getting wrong product delivered.
- 4. Artists getting work and recognition.
- 5. Shop owners getting more customers.

Props/Possible Situation:

- 1. Adding status feature.
- 2. Adding mini course feature.
- 3. Finding fake account, recognition and validation of data.

PRODUCT DEVELOPMENT CANVAS



Purpose:

- 1. Focuses on art which can be illustrations, painting etc.
- 2. Tries to inculcate a platform where art community can create magic together.

People:

- 1. Admins
- 2. Artists
- 3. Viewers
- 4. Sellers
- 5. Buyers
- 6. Shop Owners

Product Experience:

Customer called it "THE ART EYE-CATCHER" because of several arts displayed.

Product Function:

Art is the main Eye-centered, several forms of ART an be seen, where artists can get recognition.

Product Features:

- 1. Create account.
- 2. Post photos and videos.
- 3. Buy/sell art products.
- 4. Contact artists and buyers.

Components:

- 1. Internet connectivity
- 2. Database
- 3. Smartphone or PC

Customer Revalidation:

- 1. Artists are happy because they get work and recognition.
- 2. Customers can order online and give customized orders to artists.
- 3. Shop owners getting more orders.
- 4. Reposting work and not giving credits to artists.

Reject, Redesign, Retain:

The upcoming versions include

1. Artists can't spread their teachings to maximum people.

Solution: adding teaching course feature.

2. Fake accounts and posting irrelevant content.

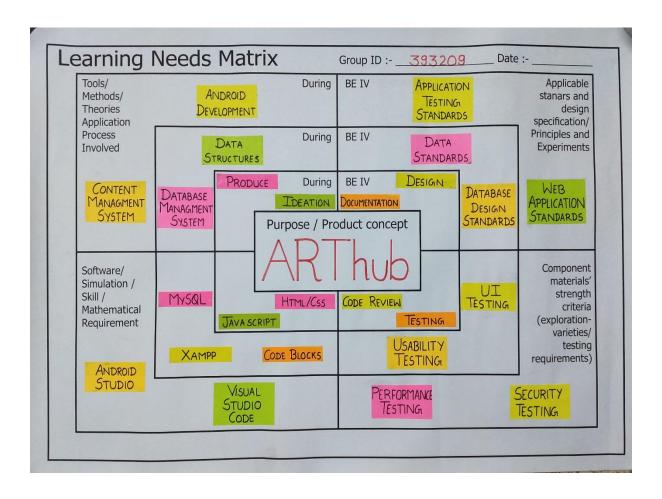
Solution: Recognition of fake accounts by using advanced language.

LEARNING NEED MATRIX

Learning Needs Matrix will help to identify the learning requirements at an early stage along with prioritization of specific learning along with defined time duration/ time allocation for each learning priority.

Identification will be focused on listing out both (i) the learning, which is included in some subject of the formal syllabus of your branch and (ii) the learning, which is required for solving the Design problem and which may not be included in the formal syllabi of the other subjects.

All such learning, required for developing the product, should be considered to be required to be studied for the group of students, who are working on the product. It may include learning of specific skills.



CONCLUSION

The ARThub is providing a single Platform for Artists to showcase their talents. It mainly aims to promote artists and their artworks. It allows them to advertise their work as well as sell them to online customers. Direct contact of customers and artists are allowed to remove any requirement of third party.

It also serves as a source of inspiration to new artists as well as non-artists to make something creative and share it with the world. Users who took inspiration from other artist's post can repost their work with proper recognition. Users can also donate to artists. As per the reviews of users, this platform is helpful to many talent-heads who are ambitious to create something new and show it to the world.