

Herfa

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**1. Introduction**

“It is fairy dust and wanderlust that guide our hands to create what our hearts desire.”  
― **Gayle Wray**

let’s modify this quote a little bit and say “to create, do and learn what our hearts desire”. This is the core idea behind Herfa website. It is the right place if you want to learn any type of handcrafts, know places to buy the needed materials for whatever crafting you intend to do.

1.1 Background

The idea behind Herfa was originated when one of the team member faced the problem of looking for a place where she wanted to learn carpentering, but she did not find a place, after a while she knew that there are a lot of places that can teach you lots of crafting.

Many of the students of faculty of Fine Arts look for places where they can buy certain products for their projects and work. It takes a lot of time looking for the proper place.

Many other people learn or already creating things or wanting to give courses but the do not know if what they are doing or looking for shall be received by the intended ones.

1.2 Purpose

Herfa’s purpose is to make life easier for its users. If user is investor then he/she would be so sure that his/her products, courses or events will reach the interested buyer. So that the investor and buyer are fully connected.

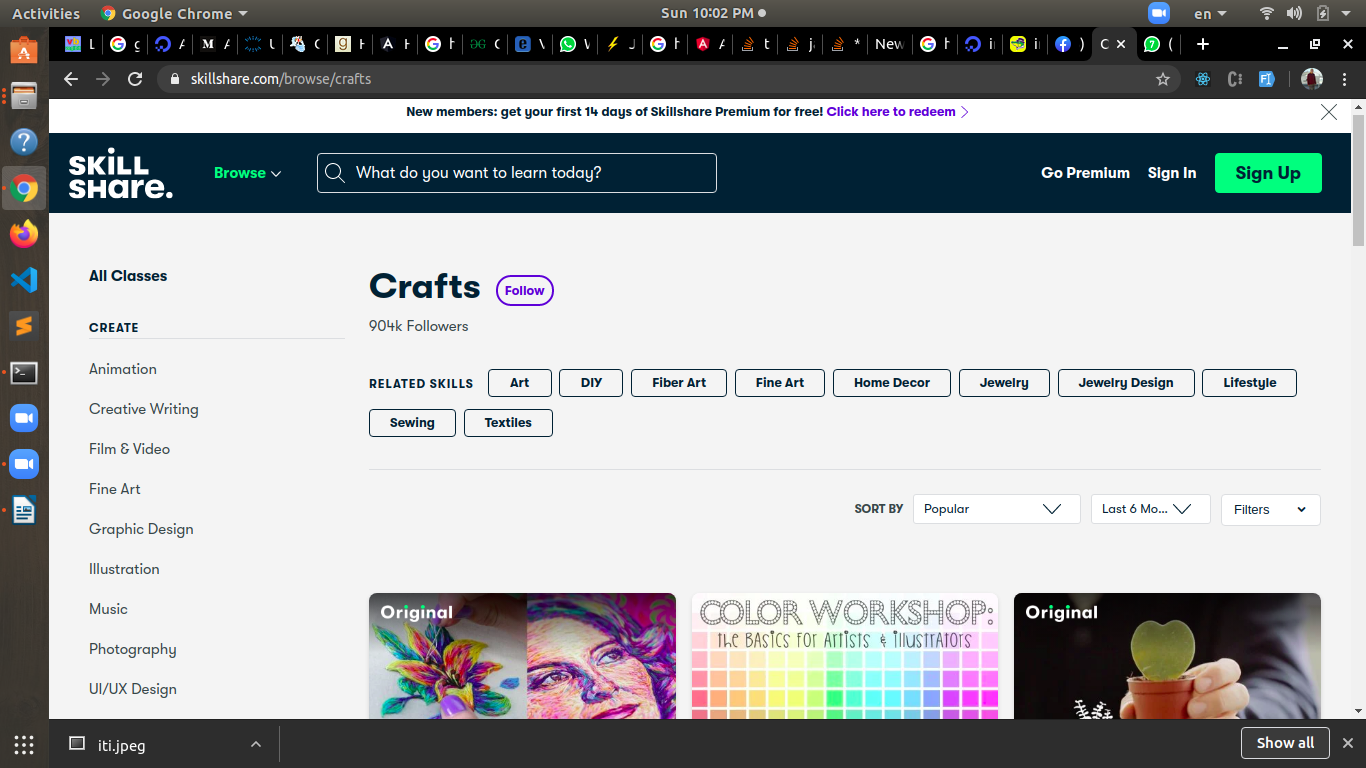
As for normal user he/she will be able to spot his/her need immediately according to his/her subscriptions or by performing a simple search.

1.3 Competitors’ Analysis

A search was conducted about how to reach a place where you can learn a handcraft profession.

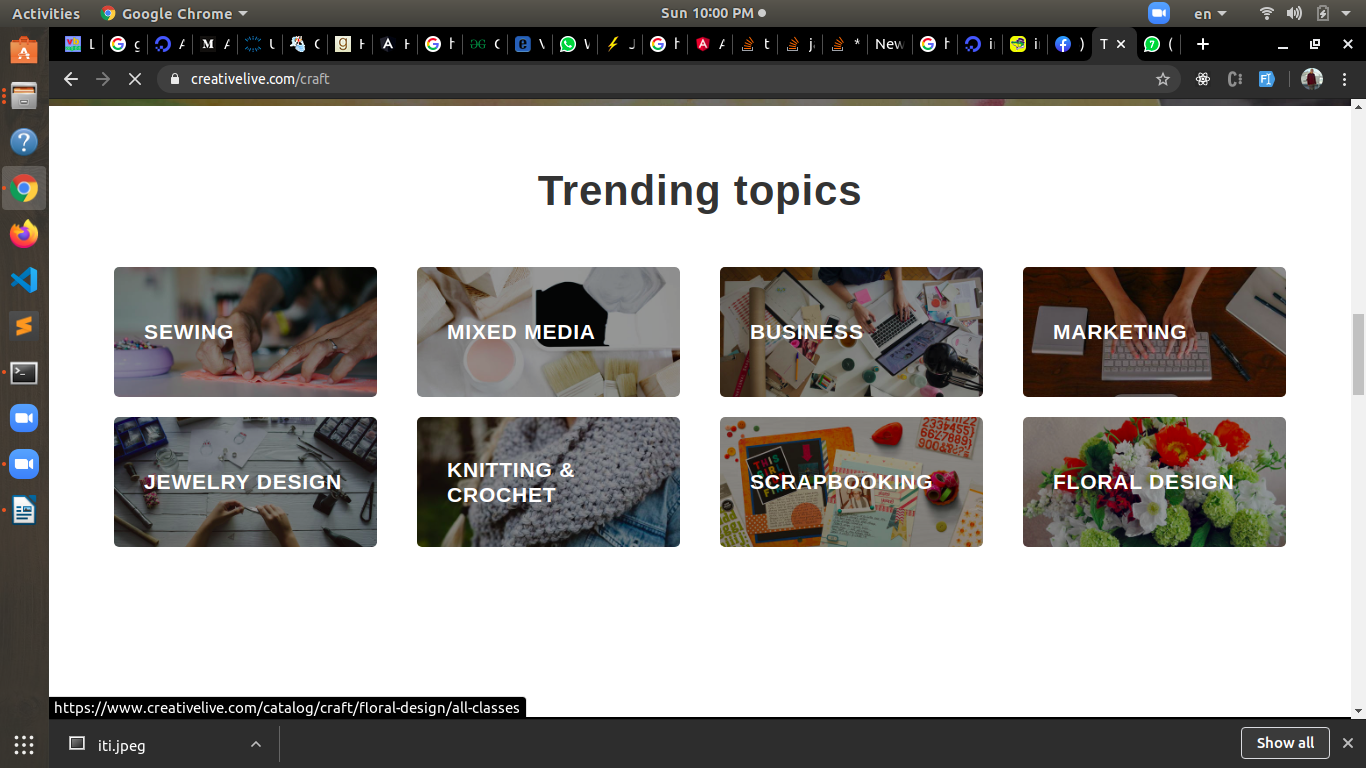
Some websites like SkillShare, it is a website where user enroll can follow a certain skill like sewing, jewelry design ...etc and it displays lots of online courses and after compilation students make a project to make sure the now have the skill.

(<https://www.skillshare.com/browse/crafts>)



(Fig.1.3.1 Display the crafts page from SkillShare website)

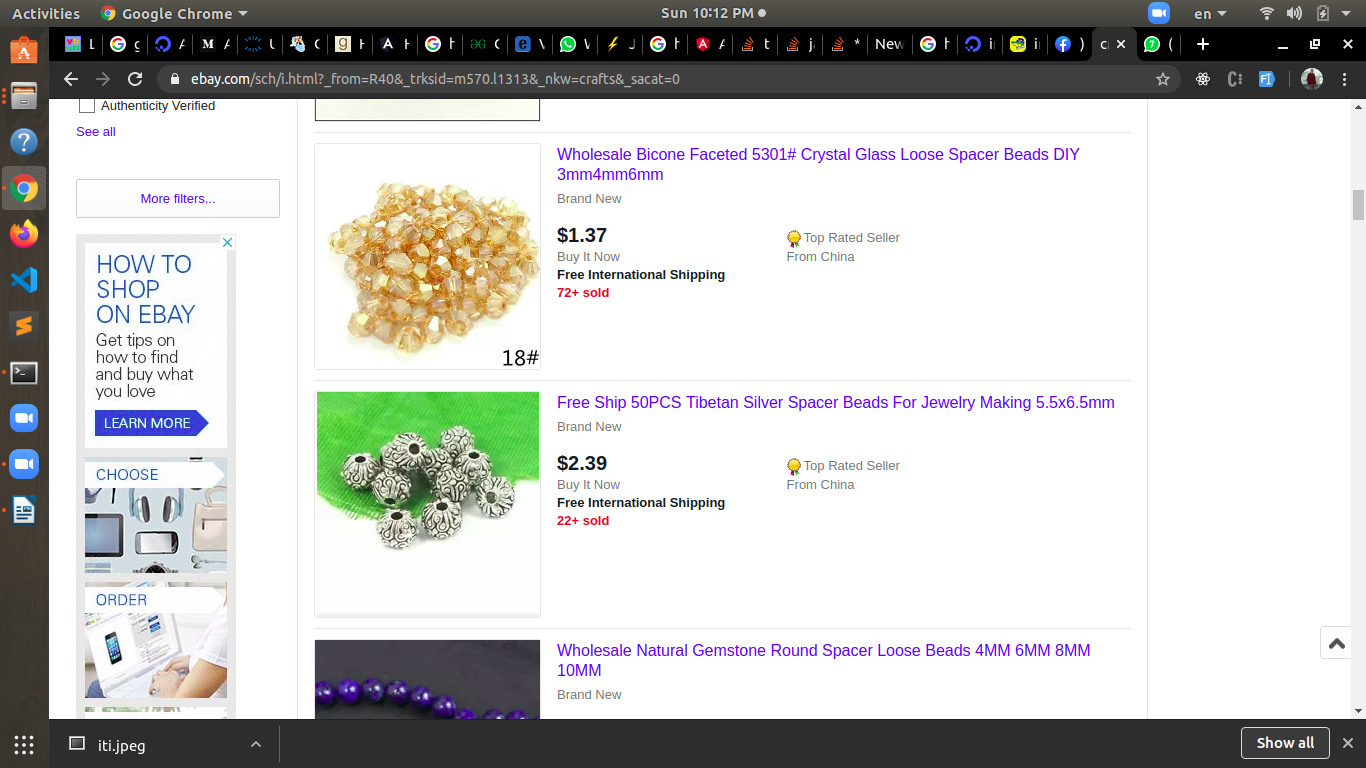
Creativelive website also interested in crafts by giving them courses about lots of crafts.

(<https://www.creativelive.com/craft>)

(Fig.1.3.2 Displayin the trending courses from Creativelive website)

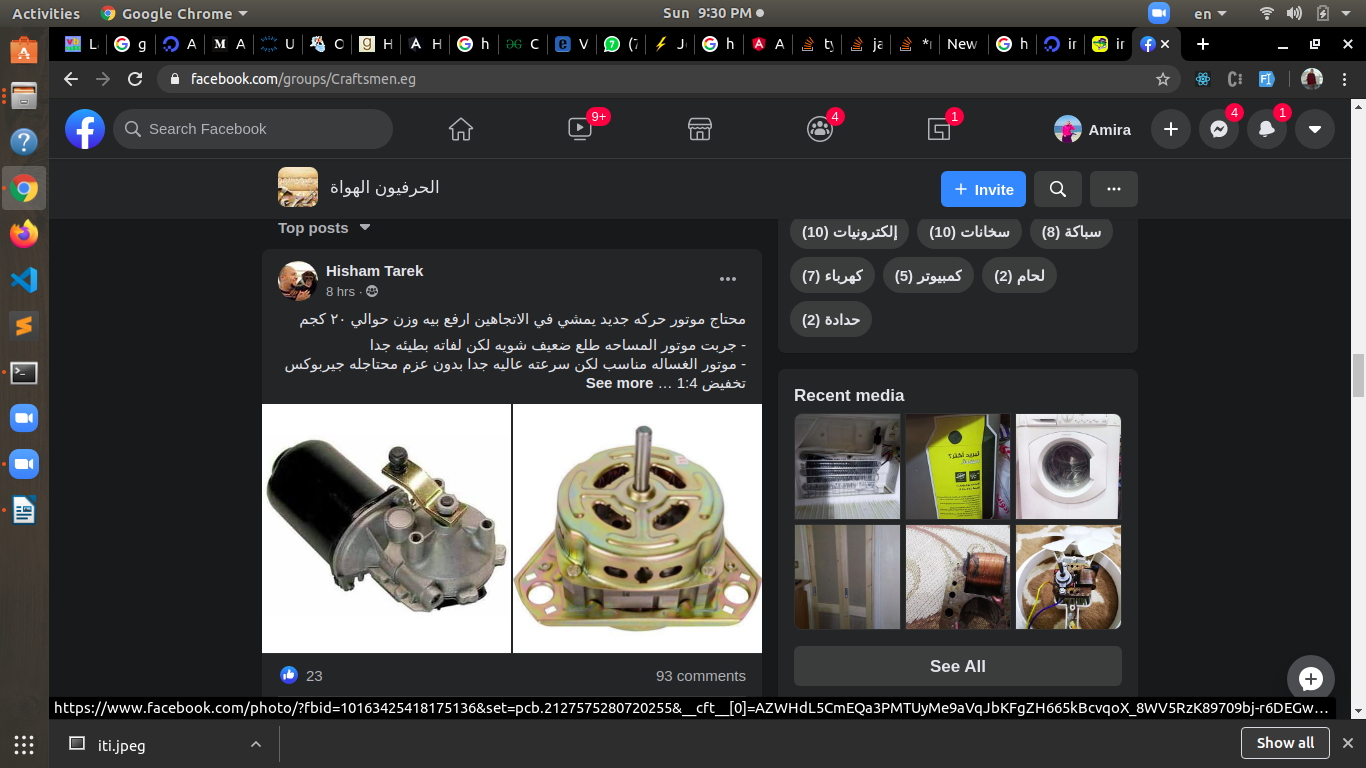
And other websites like ebey where you can buy products.

(<https://www.ebay.com/>)

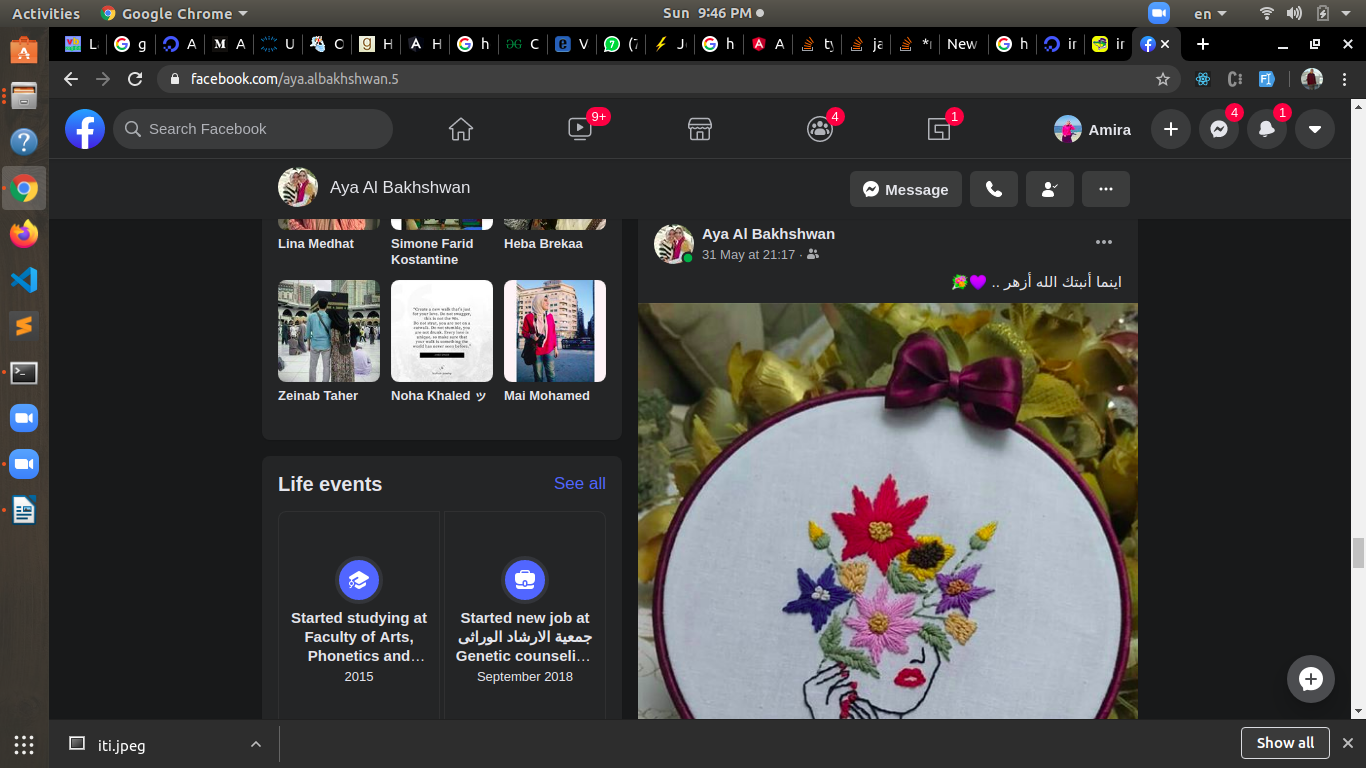


(Fig1.3.3 Displaying products from ebey website)

Beside these websites it was found that people tend to use Facebook groups, where people ask how to do something or where to buy something ex “Craftsmen [الحرفيـون الهـواة](https://www.facebook.com/Craftsmen.eg/)” group on Facebook.



(Fig.1.3.4 Asking where to buy motor)

 Also lots of crafts makers advertise their work on Facebook pages, groups or their own account.

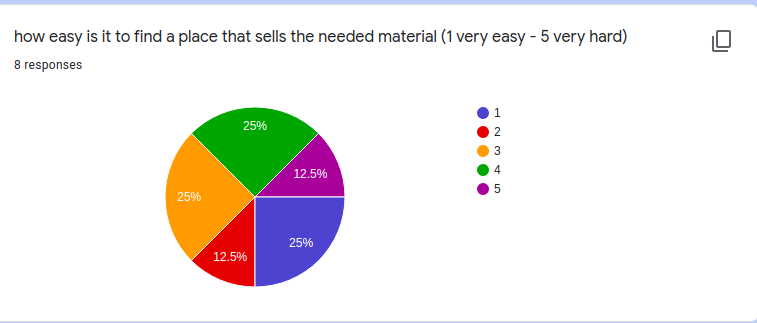
(Fig.1.3.5 Displaying products in facebook groups and pages)

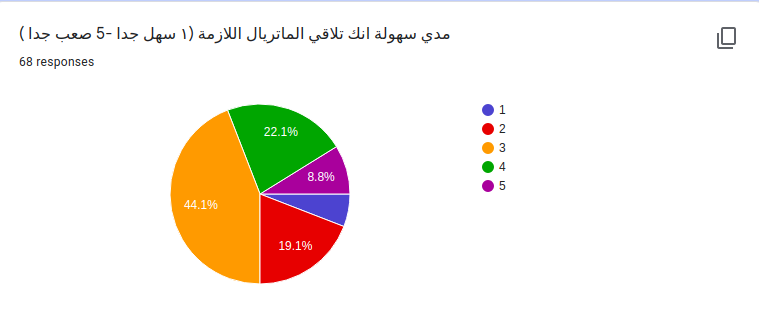
What makes Herfa different that the user can perform many tasks from one place. So Herfa made life easier for interested parties.

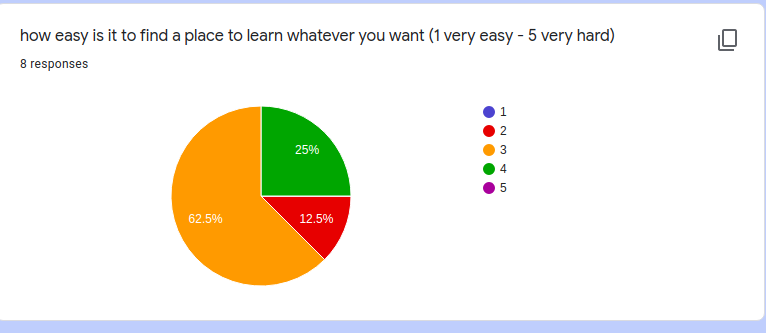
1.4 Customers’ Analysis

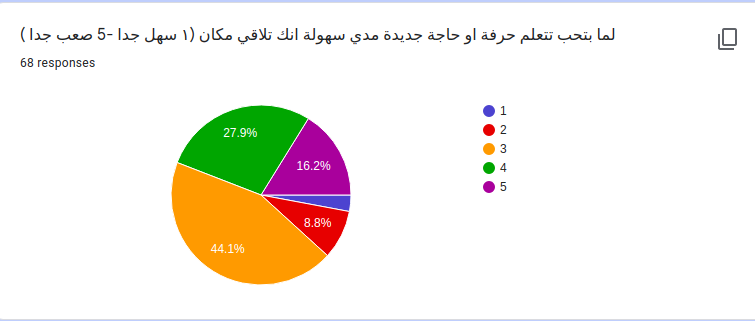
A survey has been done where people were asked about what’s their opinion about the website, will they use such a website, what are the things they need and look for.

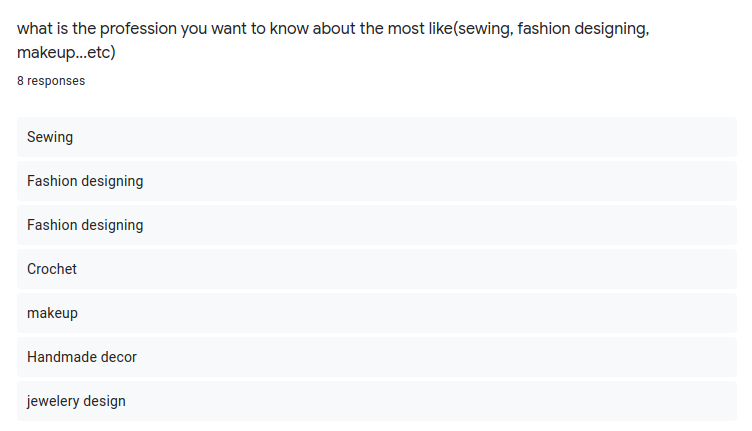
Some people had interacted with the idea and encourage the topic they even left ways of communication. The survey was conducted in two languages Arabic and English, the reason was to seek many opinions from different people with different culture.

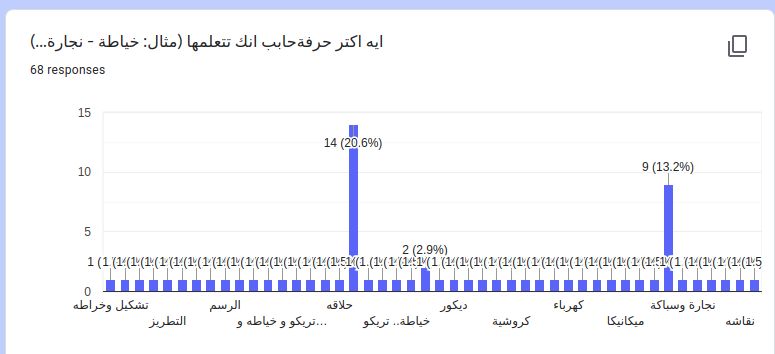


(Fig.1.4.1 percentage of easiness of finding materials)



(Fig.1.4.2 percentage of easiness of finding places to learn)





(Fig.1.4.3 The most wanted handcrafts)

(Fig.1.4.4 Sample of what people want or expect from the website)

1.5 Scope

The scope of the website is any craft maker who has a place or workshop and wants to give interested people courses or training or he/she wants to market their work.

As well as, any seller who may have a place to sell his products or may not and works online.

Also anyone interested in learning to improve a skill or to do something they like or to learn crafting to have it as their profession.

1.6 Stakeholders

Everyone who is looking for a place to learn or a product to buy will take benefits of the website, as well as everyone who is having a place and give courses or has a workshop and needs people to learn and practice will now find them easily not only find people to take courses and workshops, he/she can also market and advertise their products and places.

1.7 Business Model

Herfa’s business model is a combination of two business models, which are Peer-to-Peer Business Model and User Based Communities.

Peer-to-Peer Business, as per this model, Herfa acts as a middleman between two individual parties and create value for both demand and supply side. And User Based Communities, as Herfa is a platform where users can communicate on their own and advertise their things at the same time.

**2. Requirements**

2.1 User Functional Requirements

2.1.1 Authentication and Authorization

User is authenticated before being logged in the system so the admin can have full management over the system. And user is authorized inside the system to know what he/she can do in the system.

2.1.2 Dashboard

A dashboard for investors and admins to be able to manage the site for admins or the courses, products or events for investors.

2.1.3 Navigation

User can easily navigate in the website to view different pages like the post creation and manipulation page. Page to view courses, other pages for events and products, one to subscribe/unsubscribe a category.

2.1.4 Showing Places

To be able to find a place over google maps.

2.1.5 Perform Search

To be able to perform search over the website to reach the result he/she is seeking.

2.2 Use Cases

2.2.1 Actors

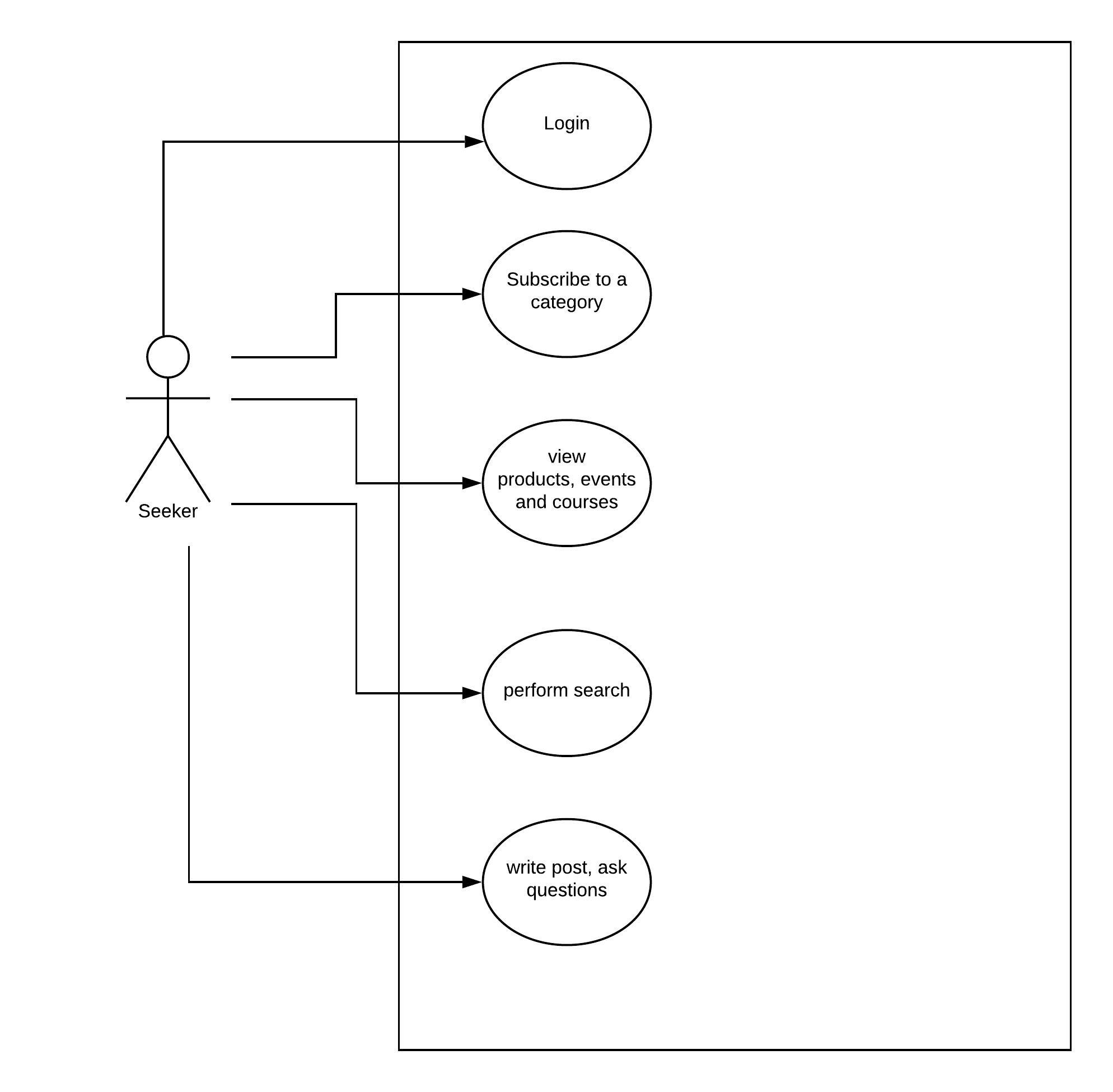
The system has 3 actors admin, investor and seeker. The admin has full privilege over the system and can manipulate almost every thing. The investor responsible for his own dashboard where he/she can manipulate his/her own products, courses and events.

Finally, seeker the one who seeks products or courses wants to know the latest events. Subscribe in a category and get to know the latest updates about that category.

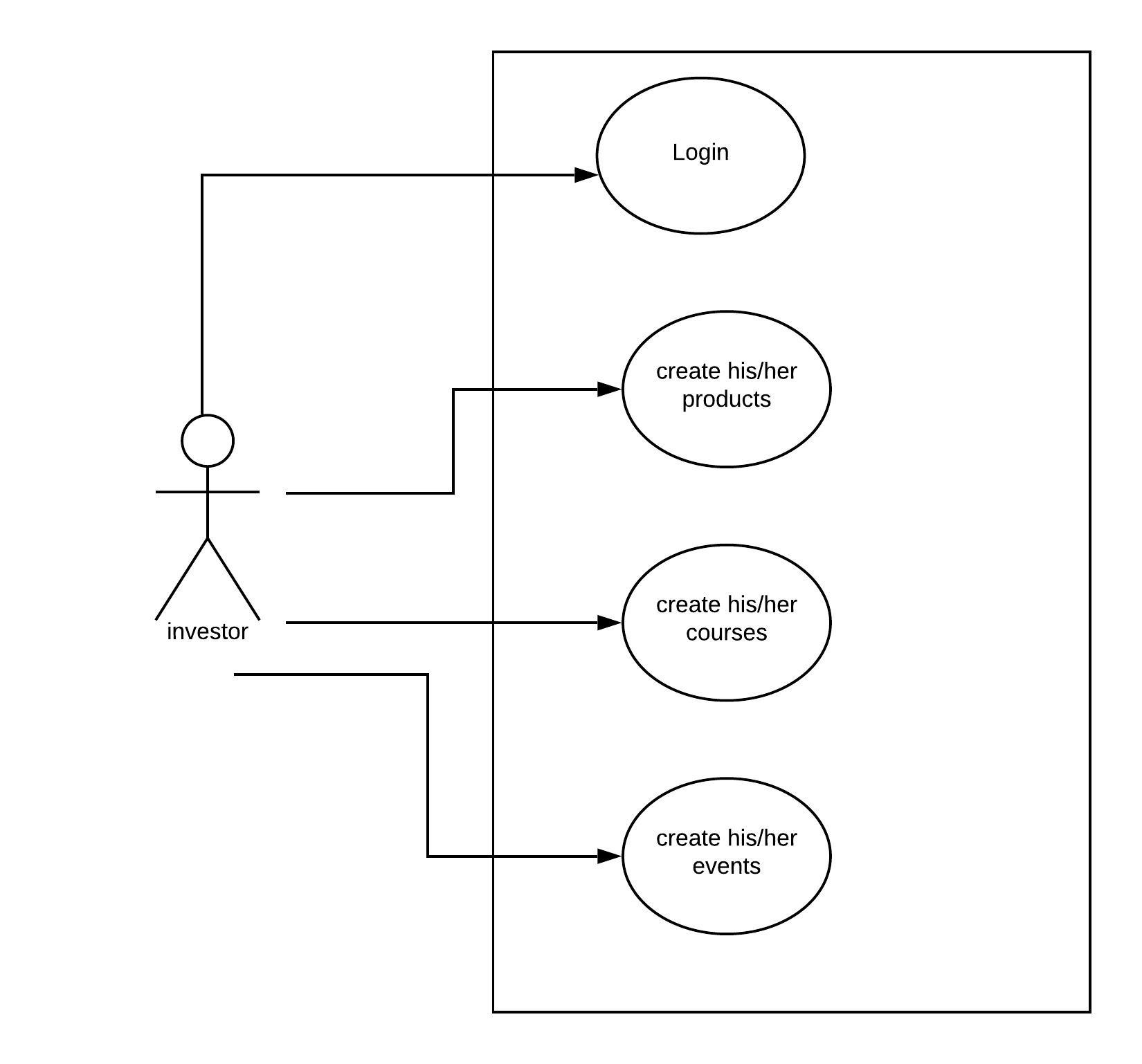
2.2.2 List of Use Cases

1. Seeker seeks products
2. Seeker seeks Course
3. Seeker asks a question
4. Seeker subscribe/unsubscribe to a category
5. Seeker perform search
6. Investor offer products
7. Investor offer workshop/courses
8. Investor create events

2.2.2 Use Cases Diagram



(Fig.2.2.2.1 Seeker Use Cases Diagram)



(Fig.2.2.2.2 Investor Use Cases Diagram)

2.3 Classes

2.3.1 List of Classes

1. User
2. Category
3. Product
4. Event
5. Course
6. Interest
7. Bookmark
8. Review\_Rate

2.4 Non-Functional Requirements

* Security, we have tended to secure our website. We have secured the Back-end and the Front-end. Back-end through passport package and validation of each request and Front-end through form validation of every input.
* Lazy loading, it is used in angular to load the site quickly and load the components when needed.
* Simplicity, it helps user and makes him/her more comfortable dealing with the website.

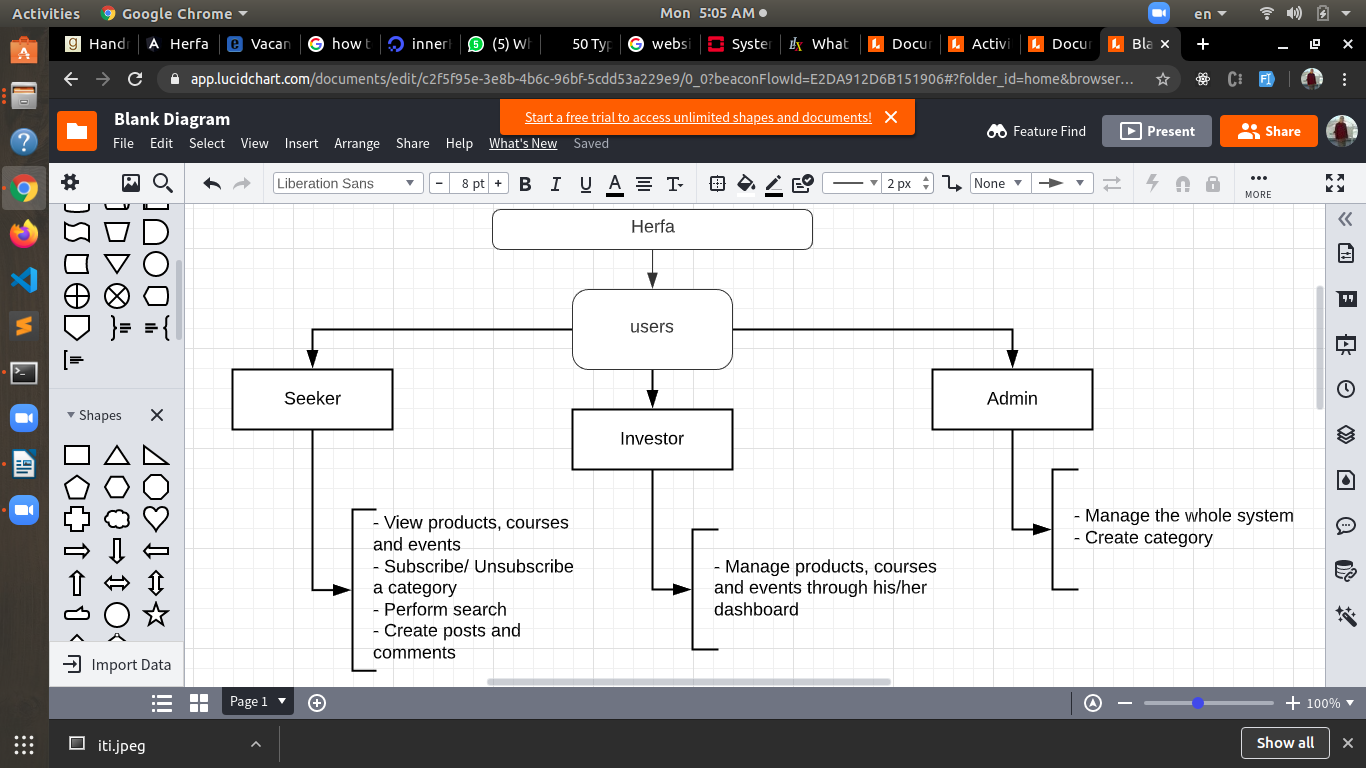
**3. Objectives**

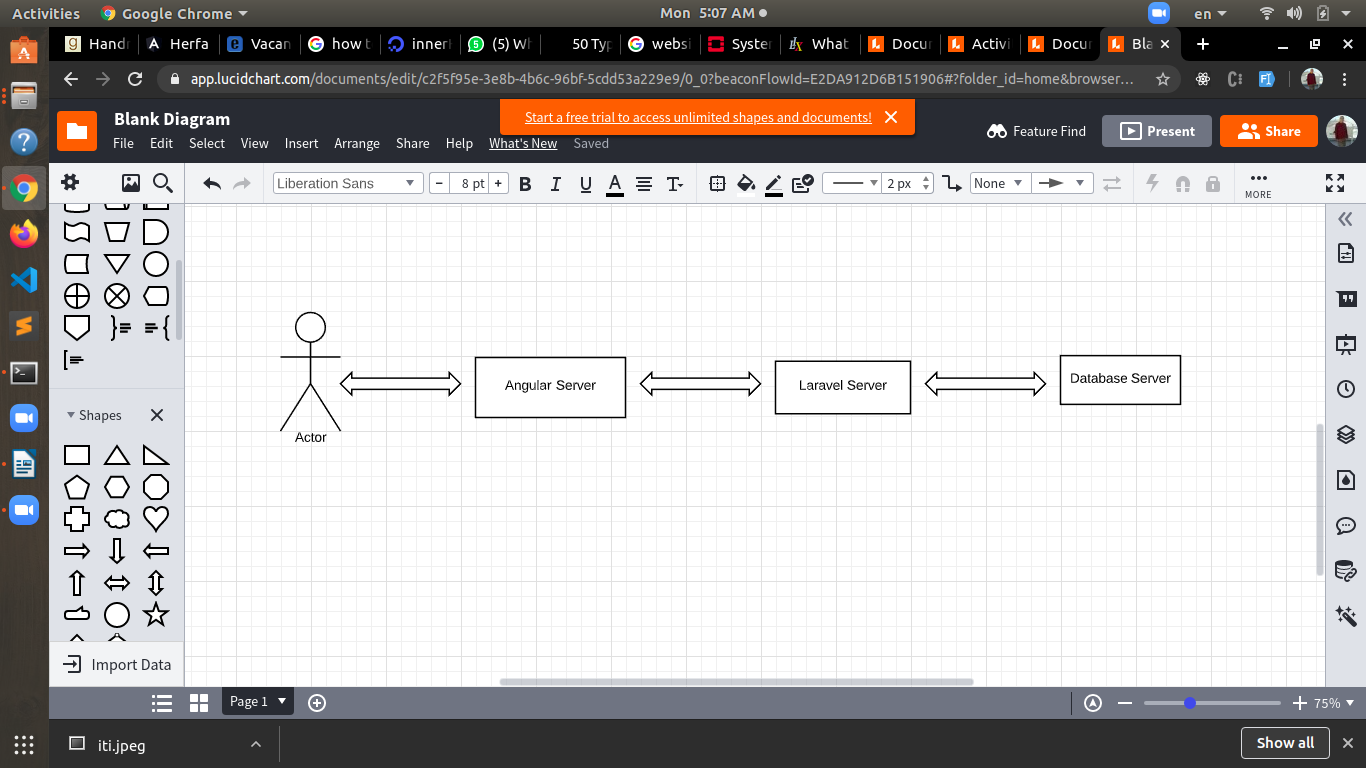
Herfa’s objective is to be an aid to any young or starting investor. It will be like a shop or workshop for him/her and a starting point. As well as, investor who seeks a certain type of users, Herfa will make it easier for them.

It will also add benefits to any seeker, as you will find a platform where he/she will have all what he/she is looking for.

**4. Design Overview**

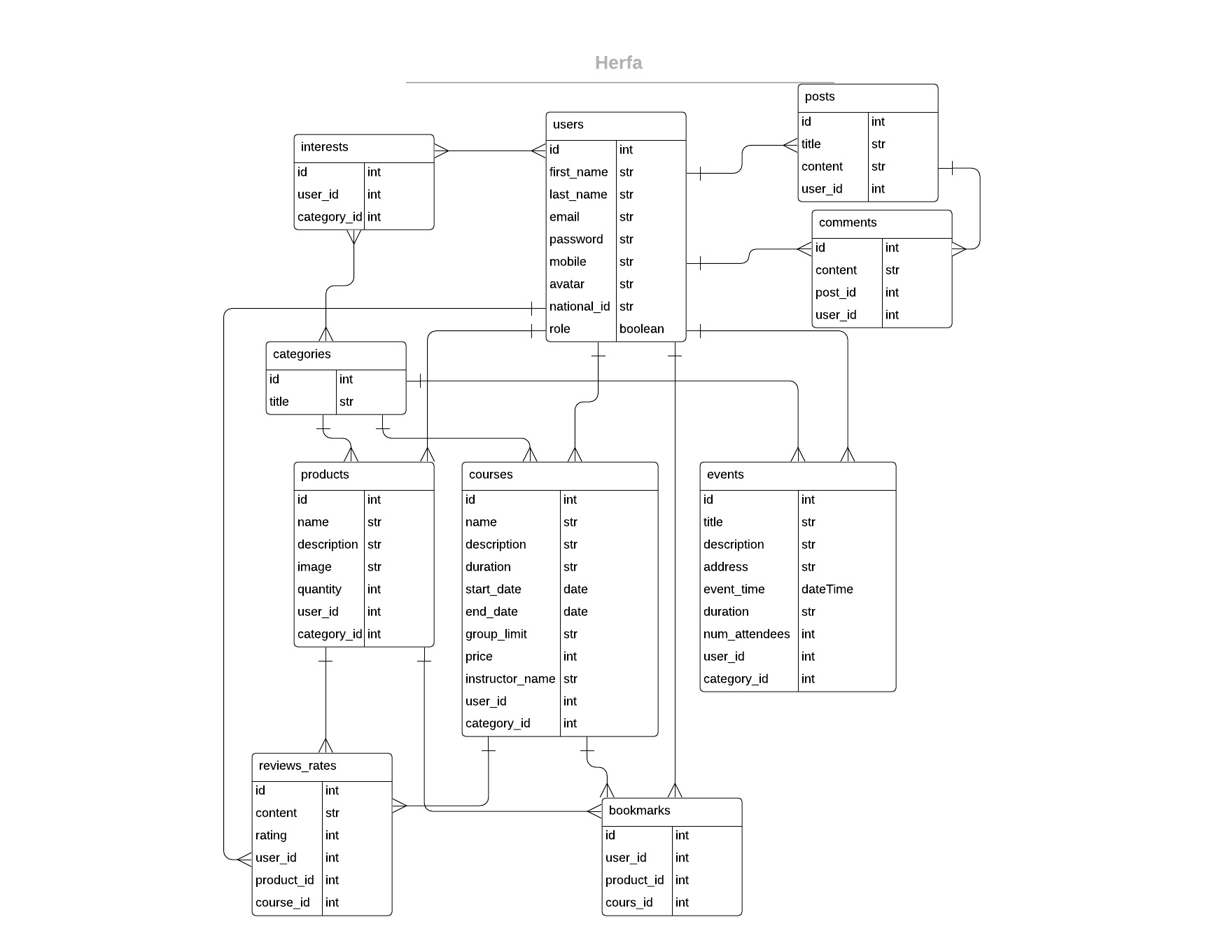
4.1 System Architecture





(Fig.4.1.1 system architecture)

4.2 Data Design

(Fig.4.2.1 Entity Relationship Diagram)

**5. Implementation**

5.1 Technologies

Herfa is working upon 3 main technologies which are:

- Laravel APIs: act as the end point to every request and security level to database.

- MySQL DB: the main database.

- Angular: responsible for user interactions with the website.

5.2 Hardware Requirements

5.3 Steps of Installation

To install Herfa locally the following is needed:

- BackEnd

* MySQL up and running
* create database
* composer installed
* laravel installed
* run composer install commend
* in .env file change database configuration
* run php artisan migrate command
* run php artisan passport:install
* run php artisan serve

- FrontEnd

* installed NodeJS
* installed NPM
* installed Angular globally
* run npm install
* run ng serve