A WEB PORTAL AND ANDROID APPS FOR FARMING INFORMATION SUPPORT SYSTEM IN BANGLADESH

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering.

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APPROVAL

The project titled "**A Web Portal and Android Apps for Farming Information Support System in Bangladesh**", submitted by **Md. Humayon Kabir, Md. Salehin Kabir and Md. Shafayet Islam Shaffet** to the department of Computer Science and Engineering. Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents.

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DECLARATION

We hereby declare that, this project has done by us under the supervision of **Md. Riazur Rahman, Lecturer of CSE ,** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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We would like to express our heartiest gratitude to **Dr. Syed Akhter Hossain, Professor and Head,** Department of Computer Science and Engineering, for his kind help to finish our project and to other faculty members and the staffs of Computer Science and Engineering department of Daffodil International University.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

The aim of the project is to disseminate ideas and scopes of new business among young and enthusiastic entrepreneurs about farm or have already farm of the country to promote them to take the challenges ahead. By using this web application, a new entrepreneur can get all necessary information about business and agriculture. The application deals with beginner and professional entrepreneur and also educated people who are interested in entrepreneurship. A person can get all kind of information about business and agriculture from this web site. In Bangladesh, there is a dearth of quality people in industry, which demands high level of entrepreneurship development program throughout the country for the growth of our economy. We have different seasons in our country and different cattle are cultivated based on season. In this website there is ideas and details for seasonal based cattle farming information. Many business ideas and details are also added here. We have done this project by using is HTML, HTML5, CSS, CSS3, PHP, Ajax, JavaScript and MySQL for database. After implementation, the system is tested in different stages and it works successfully as prototype.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Farming business is gaining popularity day by day and cattle farming in Bangladesh is already an established and profitable business model. cattle are livestock animal and it is very easy to raise some animal. Even the woman and children can also raise and take care of them easily along with their regular work. Nowadays the popularity of commercial cattle farming business in Bangladesh is increasing and more and more people are engaging with this business. Bangladesh has resulted in growing frustration among youth. In addition, there is always problem of unemployment. As a result, increasing the entrepreneurial activities in the country is the only solace. We build this web application to motivate them for entrepreneurship and also provide help and support.

The scope of entrepreneurship development in country like Bangladesh is tremendous. Especially since there is widespread concern that the acceleration in GDP growth in the post reforms period has not been accompanied by a commensurate expansion in employment.

1.2 Motivation of work

To promote sustainable agro-based strategies in order to improve the livelihood of rural poor peoples in general and resource poor farmers in particular. To increase the rural income through improvement of: Agricultural development, Better Veterinary service, Animal husbandry productivity, Aquaculture and fisheries management and production, Providing training to unemployed youth and women in particular.

Often, when entrepreneurs make the bold leap from employee of a corporation to leader of their own business, one of the first challenges they face is no longer having a person or

group of people above them to set goals, deadlines and incentives. The responsibility of inspiration becomes a task of self-motivation.

This can be a challenge for many, especially when the experience is new and the entrepreneur is consumed with working in the business rather than being working on it. Any lack of self-discipline and organization can also affect personal development and family, which are often the first to be put on the back burner.

Our web application is to build for those challenging people who want to be an entrepreneur and who have a farm.

1.3 Objectives:

The web application is designed for those, who wish to learn about Farming & entrepreneurship, its role and importance in our society, and how to bring new ideas to marketplace both in the startup and corporate setting. This is an introductory web resource intended to provide people with a solid foundation on how entrepreneurs and entrepreneurship play a key role in our countries economy.

1.4 Expected Outcome

- Cattle are livestock animal. They require less space and care than cattle.
- Care and management process are very easy and simple. Woman can easily raise some animal along with their regular household activities. And the children can also raise them perfectly with their studies.
- cattle are multipurpose livestock animal and they are suitable for commercial milk, meat, fiber, skin and manure production.
- Many highly productive local and foreign goat breeds are available and suitable for commercial production.

- The Government of Bangladesh is continuously inspiring the people for setting up small scale goat farm and creating many opportunities necessary for goat farming business.

- Commercial cattle farming in Bangladesh can be a great source of income and employment for the unemployed educated people of Bangladesh.

- Develop and strengthen entrepreneurial quality.
- Motivating for entrepreneurship to removing unemployment.
- Helping entrepreneur and also who want to be an entrepreneur.
- To analyze environmental set up relating to starting entrepreneurship.
- Enhancing industrial development.
- Helping the unemployed person to understand environmental changes and opportunities.
- Providing product marketing ideas.
- Providing product podcasting ideas.
- Providing startups, a technology idea.

1.5 Report Layout

In this report, we have organized the rest of parts as follows: we have discussed about this websites background with related works. Comparative studies, scope of the problems and challenges in Chapter 2. Then, in chapter 3, we described about requirement specification including business process modeling, requirement collection and analysis, case modeling and description, Logical data model, design requirements. we have conversed about design and implementation. In this section, we have deliberated about front-end design as well as back-end design with interaction design web viewing and implementation requirements in chapter 4. After that in chapter 5, we have discussed about implementation and testing part in implementation of interactions, testing implementation, test results and reports. Finally, we have concluded the report with future scopes in chapter 6.

CHAPTER 2

BACKGROUND

2.1 Introduction

In Bangladesh, there is a major problem of unemployment. As a result, increasing the entrepreneurial activities in the country is the only solace. We build this web application to motivate them for entrepreneurship and farmer also provide help and support.

Most of the people in our country are live in rural area and farmers. But due to lack of help they are lacking behind. Our aim is to guide the people with all kind of agriculture information including Dairy, Poultry and fish farm.

2.2 Related work

In Our country same type of work does not exist. But some similar kind of work exists in our country. Some of government website provide agricultural support like us. www.blri.gov.bdis one of them. But the only provide some of agricultural information.

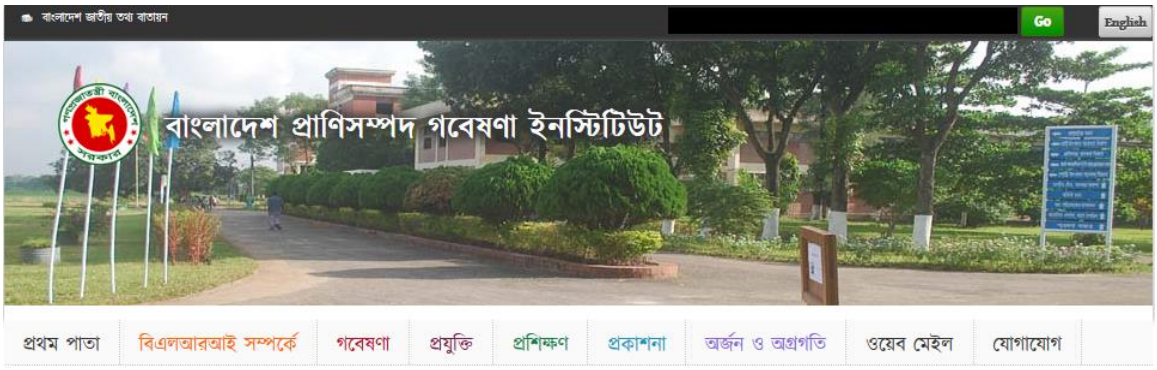


Fig 2.1: www.blri.gov.bd

A website named “Uddoktarkhoje” is provide some information but not completely.

Fig 2.2:http://uddoktarkhoje.com

We work very different way and try to completely provide each and every support to our user.

2.3 Comparative Studies

Our implemented application is different from other existing software because some of the we band android application provide agricultural information, some of provide business information and other. But we are totally work with our own concept and provide a huge information support in one website like agricultural information, business information, difference between business and entrepreneurship, step of entrepreneurship, marketing process, business license information, bank loan information, e-commerce site etc.

2.4 Scope of the Problem

- Bangladesh has resulted in growing frustration among youth. In addition, there is always problem of unemployment. As a result, increasing the entrepreneurial activities in the country is the only solace. We build this web application to motivate them for entrepreneurship and also provide help and support.

2.5 Challenges

- Providing our users full support for their field work.
- We just give them information, but in real work it’s very difficult to gain success.
- Motivating is also so difficult to us. It’s a big challenge of our project.
- To feedback them by their message, it’s hard to give them proper counsel in all time.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Introduction

This chapter covered the whole requirements analysis. It's the most important because of it shows how the requirements are interacted with the system application. It focuses on the business processes that are taking place and how these requirements can be fulfilled more efficiently to accomplish the project.

3.2 Requirement Collection &Analysis

We have collected basic requirements from field level and internet. Some are following

- Modern farming method.
- Shelter, feed, growth
- Hybrid animal
- Fish farming process
- Diseases & treatment
- Modern equipment & use manual
- Doctor contact guide
- Vet advises
- Marketing policy and details.
- Farming product details.
- Bank loan details.
- Business License details.
- About new technology details.

3.3 Use Case Modeling and Description

Basically, two types of user in this site. One is who are entrepreneur and the others are who want to be entrepreneurs.

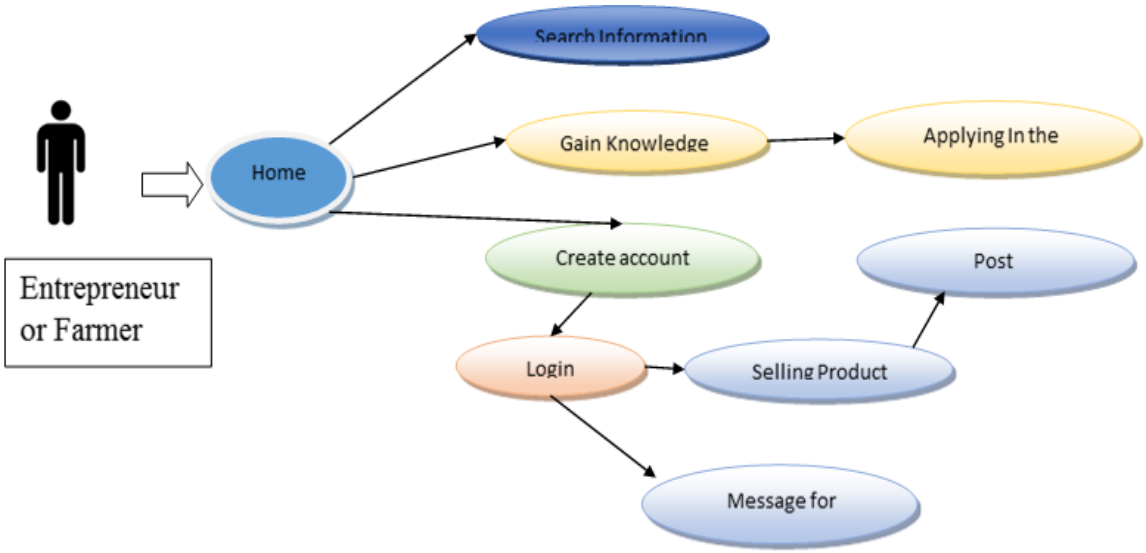


Figure 3.1: Use case model for entrepreneur or farmer

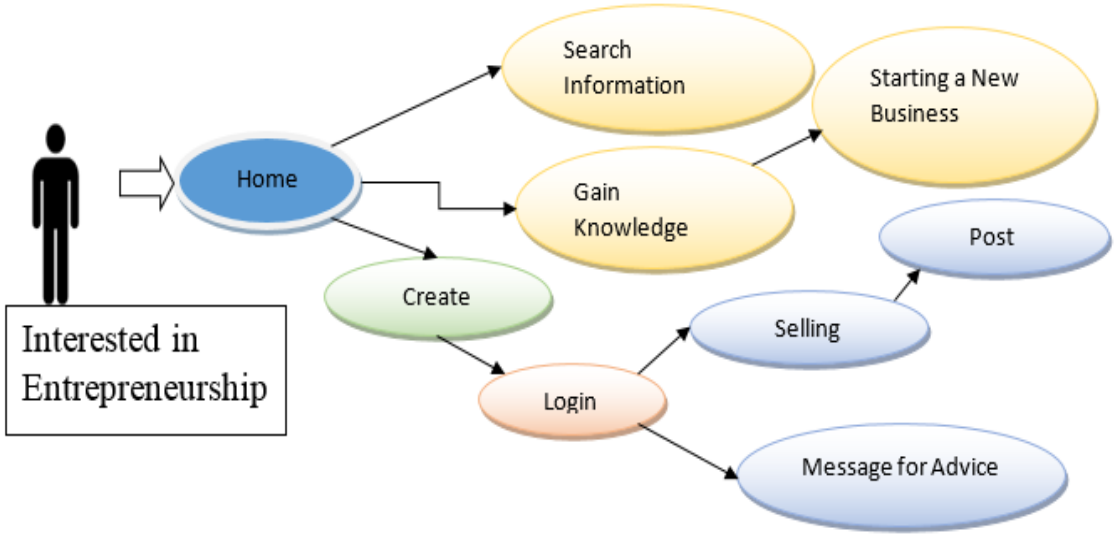


Figure 3.2: Use case model for person interested in entrepreneurship

And the admin was maintenance the application.

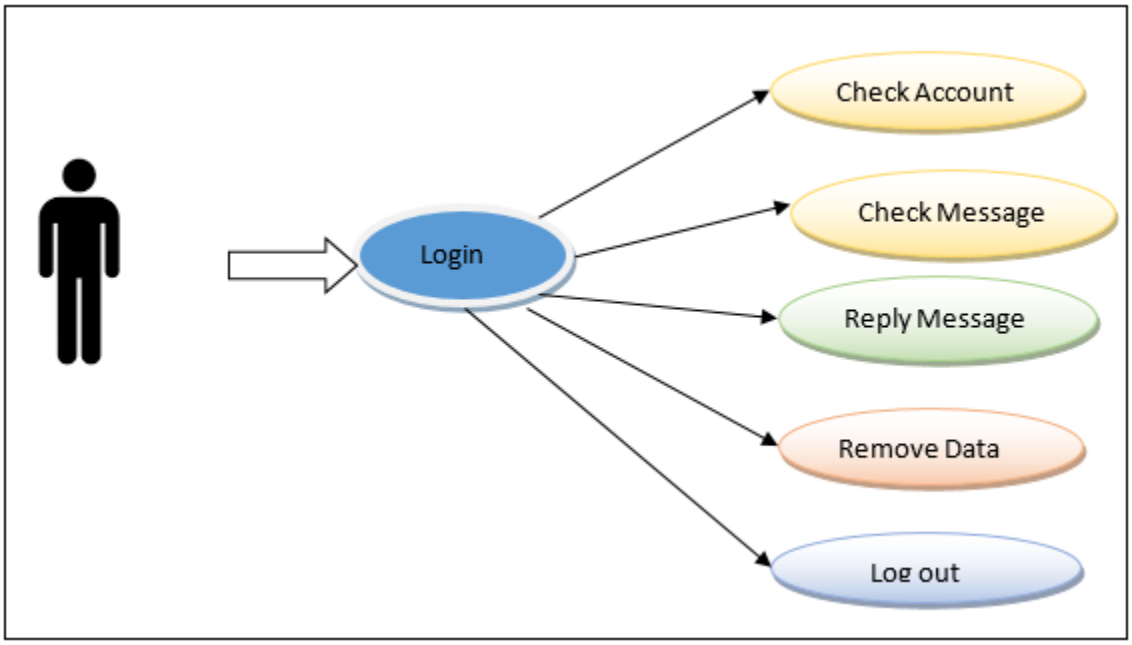


Figure 3.3: Use Case Diagram for admin

Table 3.1 illustrates the idea of use cases of different users.

Table 3.1: Description of Use Case Diagram of Users

Use Case Name	User of The System
Primary Actor	User
Secondary Actor	Null
Pre-Condition	User Must have an Account for Log In. User need to Give all the correct information for create an account.
Description	Normally User can browse or system and see all the services. If he/she have an account, he will get all listed services. He/she can take advice from the admin. He/she can also post advertisement to sale there product.

Post-Condition	Show an acknowledgement to user “You have Successfully Log In”. Then he/she will be able to take all the services.

Table 3.2: Description of Use Case Diagram of Admin

Use Case Name	Admin of the System
Primary Actor	Admin
Secondary Actor	Null
Pre-Condition	Admin Must have an account to Login and manage the system. The admin account is pre-defined by developer.
Description	Admin can edit and delete the design of the application. Admin can remove a profile. He will be able to control or manage the whole system.
Post-Condition	No one will be able to login into admin panel. If he/she don’t have a user id and password.

3.4 Logical Data Model

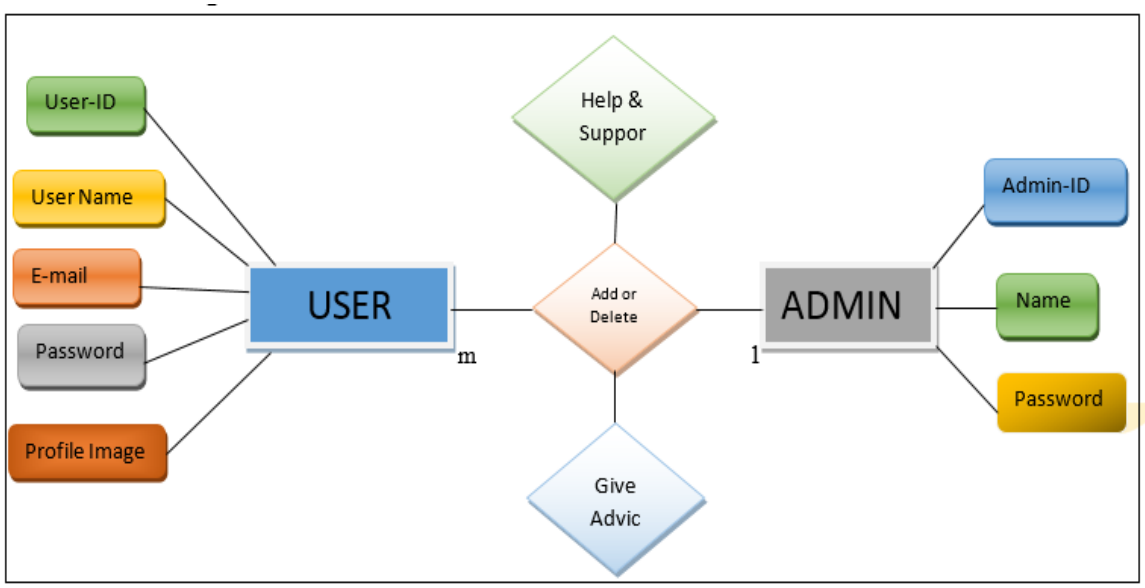


Figure 3.4: E-R diagram of the proposed system

3.5 Design Requirements

- The system will use by two types of users, those are System Admin, and users who are want to take advice from us and also sale their product in our farming blog.
- System admin will setup basic settings of the system.
- User will create account and login.
- User will give some information like phone name, number, email so that admin can help them anyway.
- To sale product users use their photo in registration form. So that the identity will be more facilitate.
- For advice from admin, users can send message.
- The message stored in database. Admin try to give them solution.
- For marketing product in our website, at first user login with their account and can post their product details with photo.
- Admin can remove any post or account if its needed.

CHAPTER 4

DESIGN SPECIFICATION

4.1Front-end Design Specification

- The system will use by two types of users, those are System Admin, and users who are want to take advice from us and also sale their product in our farming blog.
- Every user will login using simple login form. Login field are email address and password.
- Will include forgot password option for recovery or generate new password.
- We include session where the user of the system can save login information through browser cookies.

4.2 Back-end Design Specification

- System admin will setup basic settings of the system.
- User will create account and login.
- User will give some information like phone name, number, email so that admin can help them anyway.
- To sale product users use their photo in registration form. So that the identity will be more facilitate.
- For advice from admin, users can send message.
- The message stored in database. Admin try to give them solution.
- For marketing product in our website, at first user login with their account and can post their product details with photo.
- Admin can remove any post or account if its needed.

Interaction Design in essential for make a system easy. He done lots of things to make our system easy. We use buttons and icons for that people can easily interact with the system.

We implement many options for select. User don’t need to input text manually in areas instead of he/she can choose options.

4.3 Implementation of Requirements

Technology used to develop the are as follows:

Markup Language: HTML 5

Design: CSS 3

Programming/Scripting Languages: Java Scripts, PHP, jQuery, Ajax

Database: MySQL

Framework: Bootstrap

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

- Group wise SQL queries should be block with a single transaction to maintain integrity.
- Needed to create Database user by role.
- According to role of user, DBA will assign the permission for tables individually (If needed).
- DBMS system follows sequential process to handle a DB request. Process demonstrated bellow (Execution and Parsing Process):
- SQL request goes to SQL Parser and stores it into code cache.
- The parsed code goes to SQL executer.
- Then the request checks the user permission for respective table.
- User feedback request are stored in DB.

5.2 Implementation of Front-end Design

Admin Login

This is the home page of our developed system. In our system have five types of users and every user can login using this login form. And after login they can perform action based on the defined role and user type.

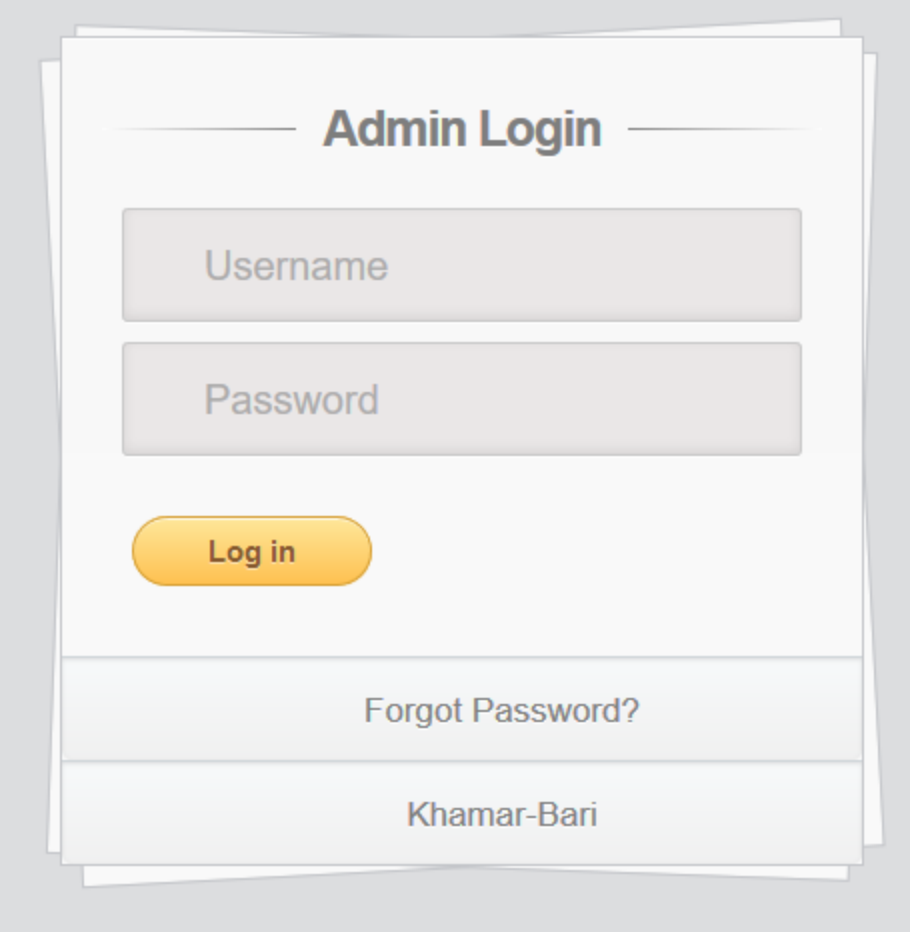


Figure 5.1.1: Admin Login

Figure 5.1.2 Show the admin page where admin can show users details and delete users account if needed.

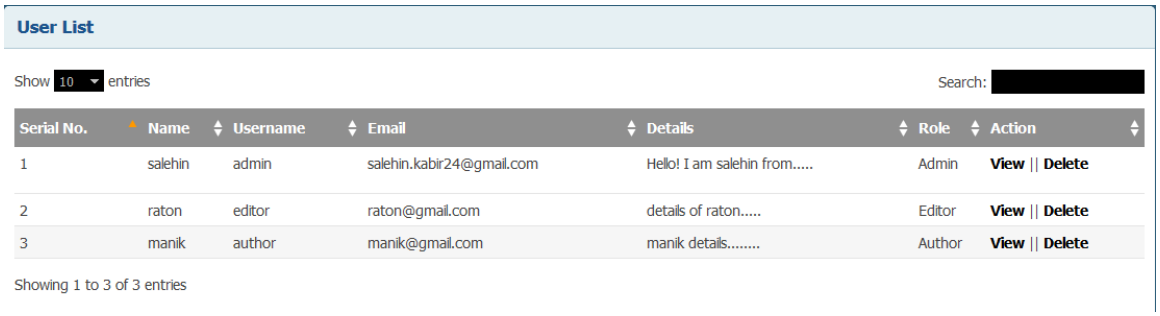


Figure 5.1.2: Show and delete users account

Homepage

The index of our website was figure 5.2 given below:

Figure 5.2: Homepage On Webside

Figure 5.2: Homepage On App

In header, there was our website logo and a menu bar. The current menu is “Homepage”. In below of the menu bar, there is image slider bloc with banner.

Basic of Farming

1. Given below figure5.3 show the basic of farming. What you can see how to start a farm.

Figure 5.3: Basic of Farming.

Idea of Shelter, farm management

2. Given below figure5.4 show the basic idea of making shelter for farm animal. What you can see how to made shelter.

House Construction

Figure 5.4: Basic of Farming.

Idea of feed, growth

3. Given below figure5.5 show the basic idea of feed for farm animal. What you can see how to feed for farm animal.

Figure 5.5: Idea of Feeding.

Hybrid animal / justify

4. Given below figure5.6 show the hybrid animal for farm. What you can see how to justify hybrid animal for farm.

Figure 5.6: Hybrid animal.

Animal health - common diseases & treatment

5. Given below figure5.7 show the common diseases & treatment animal for farm. What you can see how to justify hybrid animal for farm.

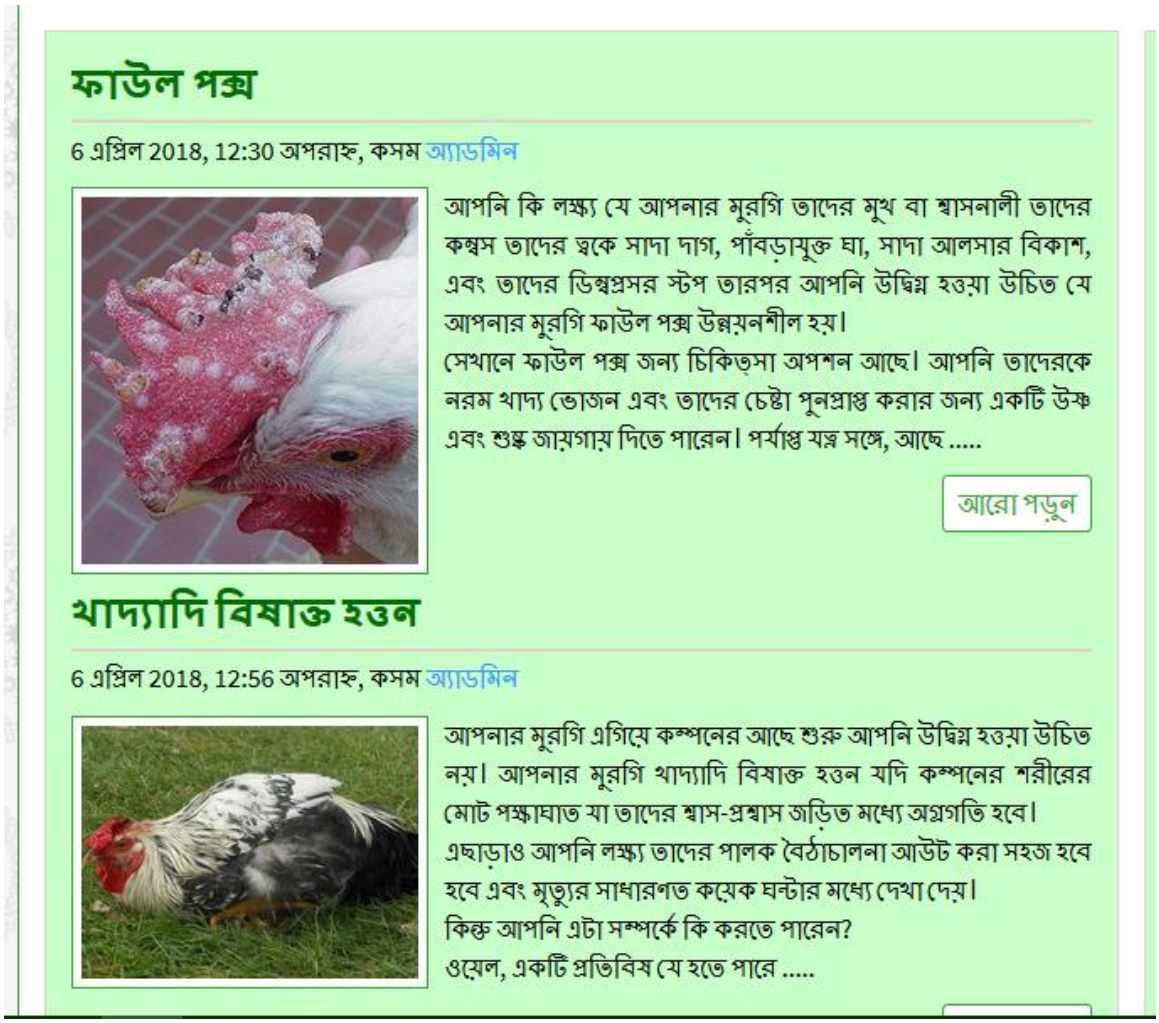


Figure 5.7: Diseases & syndromes

modern equipment & use manual - poultry equipment, dairy equipment

6. Given below figure5.8 show the modern equipment & user manual for farm. What you can see how to use modern equipment & technology for farm.

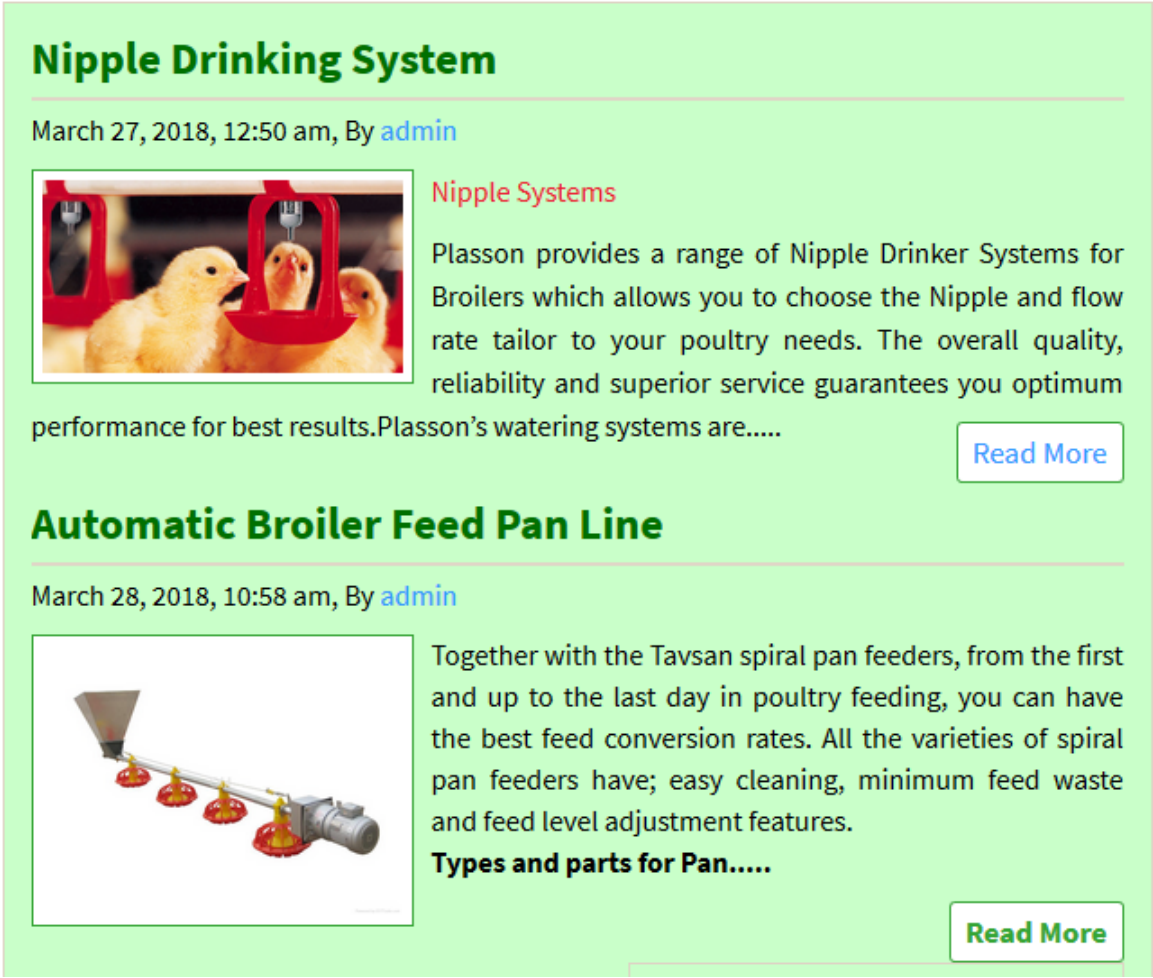


Figure 5.8: Modern Equipment.

Cattle weight calculator

7. Given below figure5.9 show the cattle weight using tap & input heart girth & length .it will automatically calculate weight kg/ pound. What you can calculate weight for cattle.

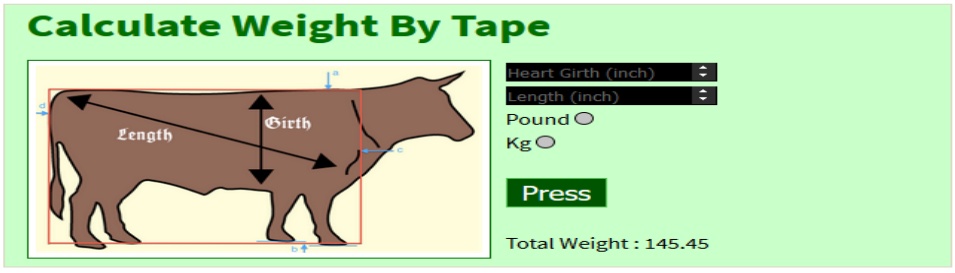


Figure 5.9: Cattle Weight Calculator

Doctor contact guide (address by location)

8. Given below figure5.9 show the cattle weight using tap & input heart girth & length .it will automatically calculate weight kg/ pound. What you can calculate weight for cattle.

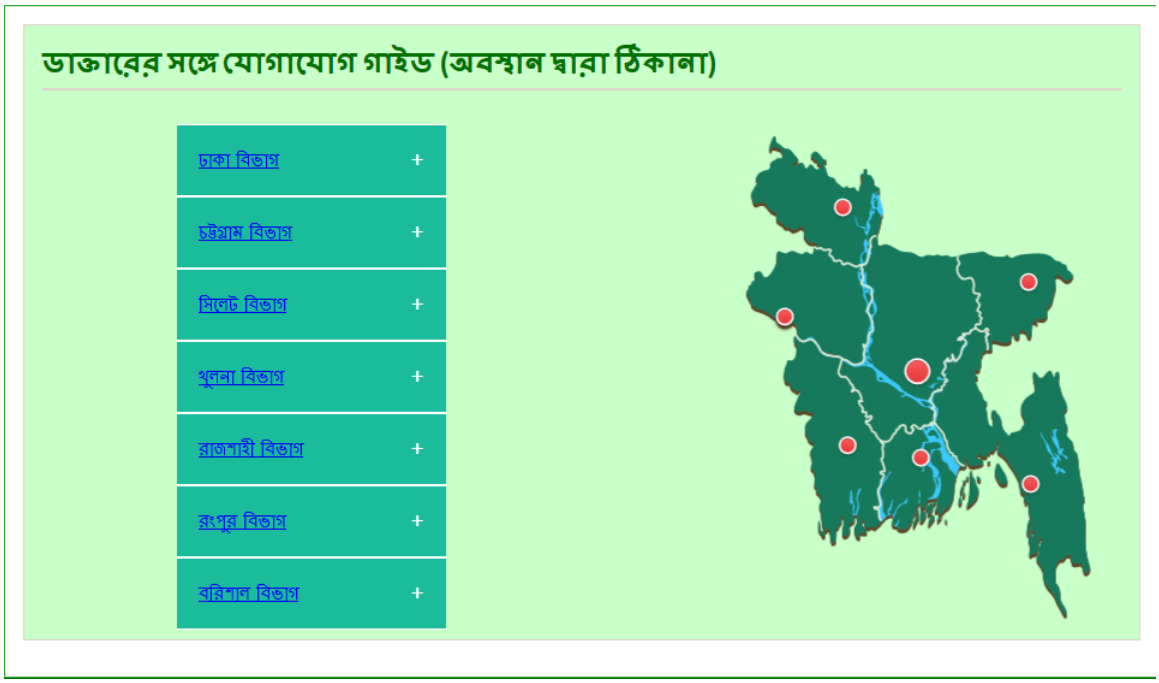


Figure 5.7: Doctor Contact Guide.

Vet advises

9. Given below figure5.8 show the vet advices for farm animal. What you know good result for farming solution.

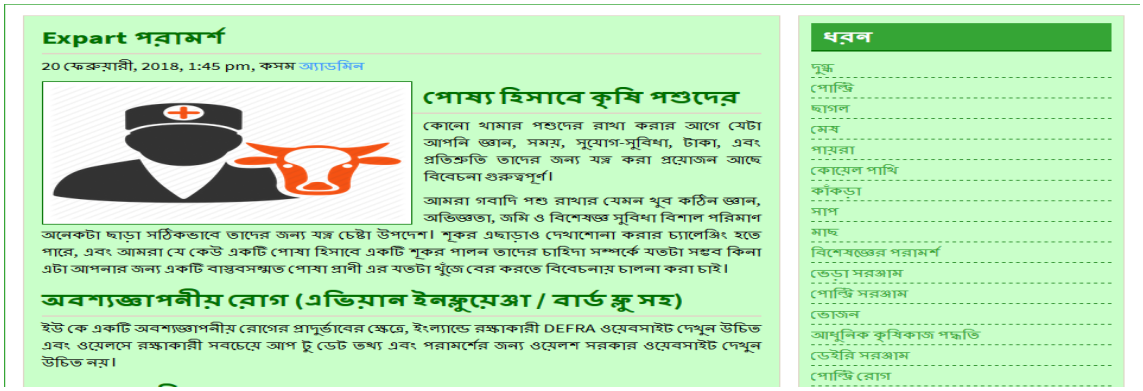


Figure 5.8: Expert Advice.

veterinary medicine (product guide)

10. Given below figure5.9 show the veterinary medicine guide for farm animal. What you know good result for farming solution.

Figure 5.9: veterinary medicine Guide

Basic of entrepreneur

11. Given below figure5.3 show the four-basic structure of an entrepreneur. What you can see to be an entrepreneur.

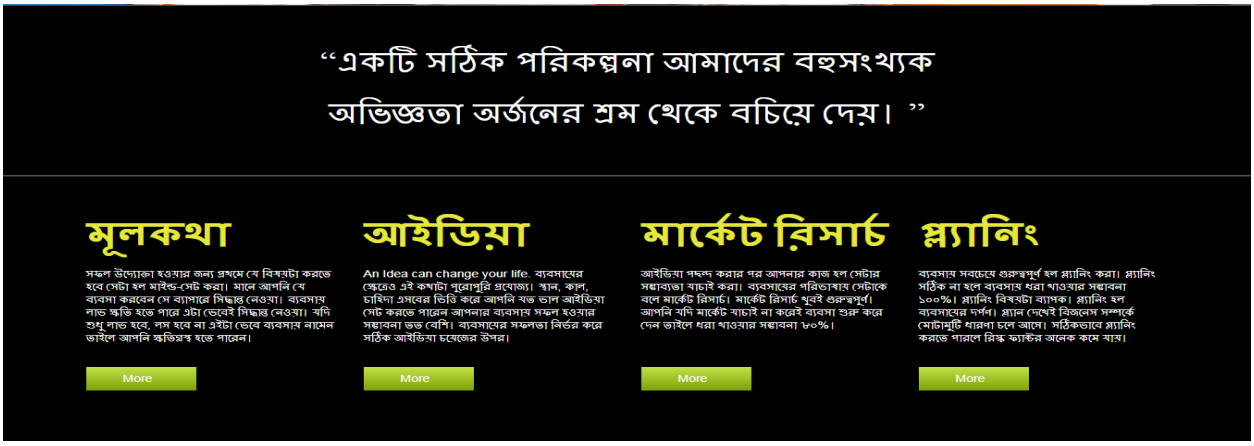


Figure 5.10: Basic of entrepreneurship

12. 2nd is describe some idea that u can do to be an entrepreneur.

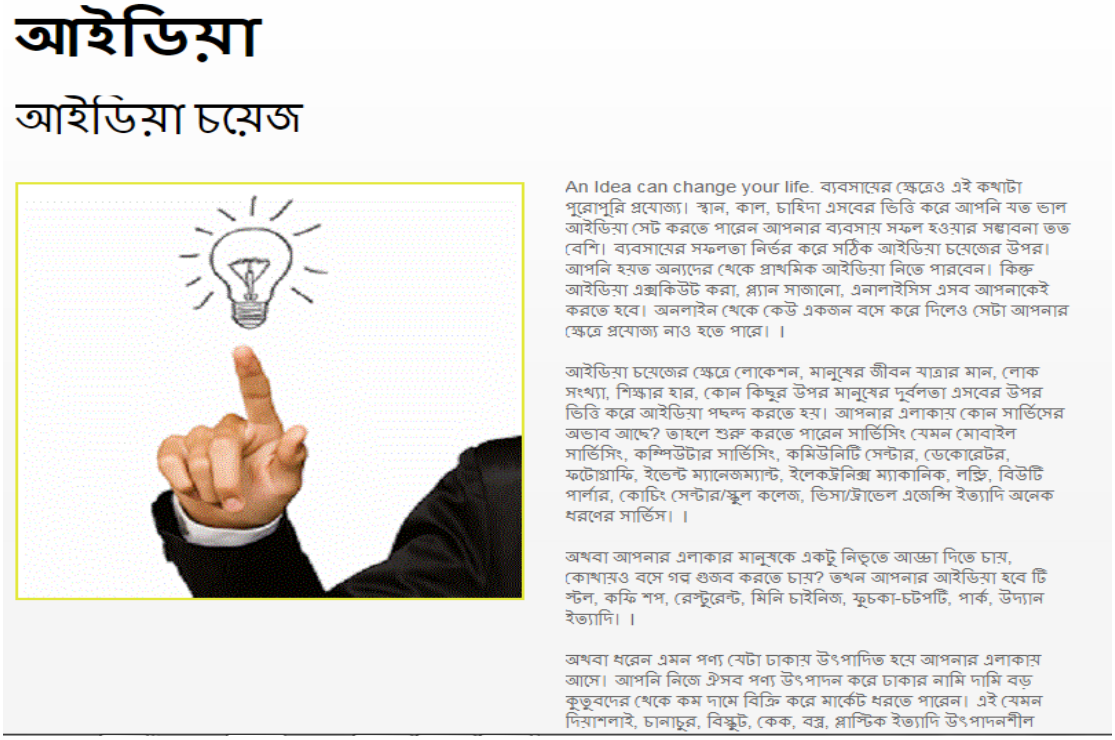


Figure 5.11: Idea Choice

13. 3rd is describe about product marketing.

মার্কেট রিসার্চ

সম্ভাব্যতা যাচাই করা

আইডিয়া পছন্দ করার পর আপনার কাজ হল সেটার সম্ভাব্যতা যাচাই করা। ব্যবসায়ের পরিভাষায় সেটাকে বলে মার্কেট রিসার্চ। মার্কেট রিসার্চ খুবই গুরুত্বপূর্ণ। আপনি যদি মার্কেট যাচাই না করেই ব্যবসা শুরু করে দেন তাইলে ধরা খাওয়ার সম্ভাবনা ৮০%। মার্কেট রিসার্চের সময় আপনাকে যে বিষয়গুলো খেয়াল রাখতে হবে তা হল

১। আপনার কাস্টমার কারা?
২। তারা কোথায় থাকে?
৩। তাদের থেকে আপনার দুরত্ব কত?
৪। তাদের মাঝে আপনার প্রোডাক্টের চাহিদা কেমন?
৫। আপনার আগেই কি কেউ এই প্রোডাক্টটা তাদের কাছে দিচ্ছে? দিলে তারা কতটুকু শক্তিশালী?
৬। যদি প্রতিদ্বন্দ্বী থাকে তাহলে আপনি তাদের টেক্কা দিয়ে ব্যবসা করবেন নাকি তাদের রাখা ফাঁক ফোকর দিয়ে ব্যবসা করবেন?
৭। আপনার প্রতিদ্বন্দ্বীদের চেয়ে আপনার পণ্যে আলাদা কোন বৈশিষ্ট্য আছে কিনা যার জন্য ক্রেতারা আপনার পণ্য নিবে?
৮। আপনি কি নির্ধারিত সময়ে ব্রেক ইভেন পয়েন্টে যেতে পারবেন?
৯। শক্তিশালী প্রতিদ্বন্দ্বীর মাঝেও ব্যবসা করার সুযোগ আছে কিনা?
১০। আপনার পণ্য মানুষের মাঝে উপস্থাপন করার মত উপযুক্ত লোক আছে কিনা?

এই প্রশ্নগুলোর উত্তর যখন লিখবেন তখন মার্কেট যাচাই হয়ে যাবে। যদি ইতিবাচক হয় তাহলে ব্যবসা প্লান করানো যাবে। না হলে আইডিয়া চেঞ্জ করে নতুন আইডিয়া বের করতে হবে। ।

Figure 5.12: Marketing Research

14. And 4th is describe about planning.

প্ল্যানিং

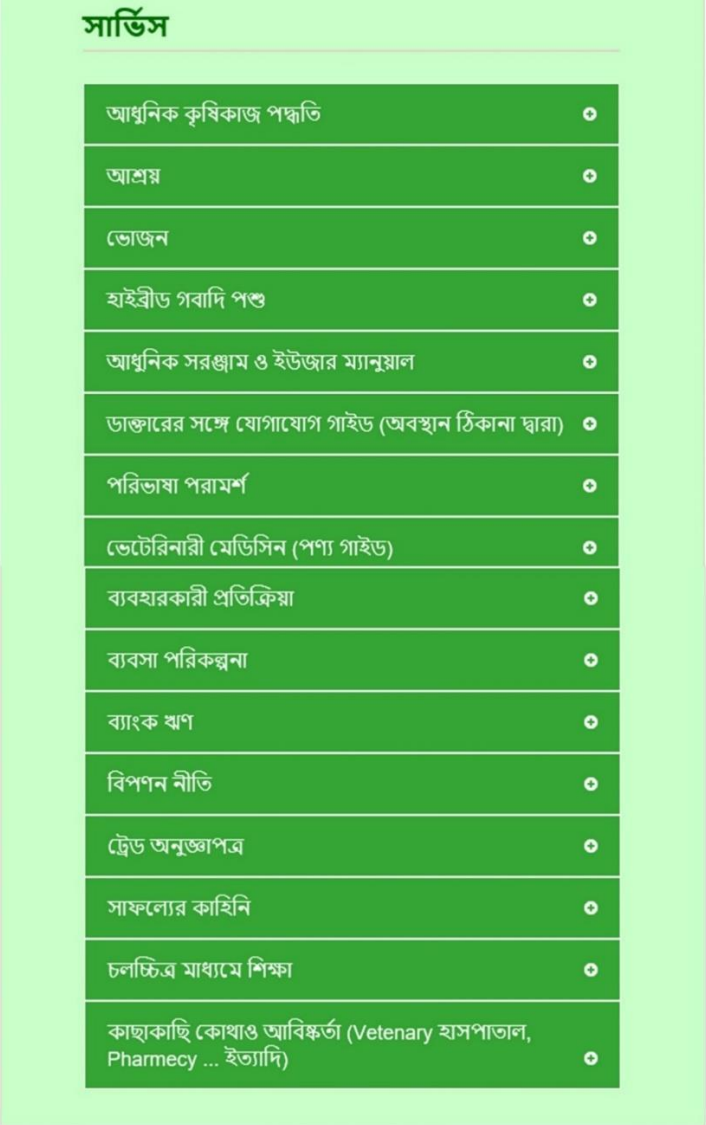
প্ল্যানিং করা

ব্যবসায় সবচেয়ে গুরুত্বপূর্ণ হল প্ল্যানিং করা। প্ল্যানিং সঠিক না হলে ব্যবসায় ধরা খাওয়ার সম্ভাবনা ১০০%। প্ল্যানিং বিষয়টা ব্যাপক। আমি এখানে সংক্ষেপে আলোচনা করতেছি। বিস্তারিত জানতে ইন্টারনের ম্যানেজম্যান্ট বই পড়তে পারেন। প্ল্যানিং হল ব্যবসায়ের দর্পণ। প্ল্যান দেখেই বিজনেস সম্পর্কে মোটামুটি ধারণা চলে আসে। প্ল্যানিং করার জন্য আপনি যেই বিষয়গুলো দেখবেন তা হচ্ছে

*পুঁজি কত খাটাবেন?
*পুঁজি কোথায়, কিভাবে খাটাবেন?
* আপনার প্রোডাক্ট মার্কেটিং করবেন কই? প্রতিদ্বন্দ্বীকে টেক্কা দিবেন না তাদের ফাঁক ফোকরে বিজনেস করবেন?
* আপনার রেভিনিউ টার্গেট কত?
* আপনার কাঙ্ক্ষিত রেভিনিউ আসতে কত দিন লাগবে?
* ব্যবসা শুরুর প্রথম মাস থেকেই কি রেভেনিউ আসবে? নাকি কয়েক মাস প্রফিট ছাড়াই থাকতে হবে?
* প্রথম মাসে রেভিনিউ না আসলে কতদিন এইভাবে চলবে? প্রফিট না আসা পর্যন্ত বিজনেস টিকিয়ে রাখতে কতটাকা ইনভেস্ট করতে হবে?
* বিজনেস প্লানিং করতে কতজন এমপ্লয়ী লাগবে? তাদের বেতন কেমন হবে?
* বড় কোম্পানি হলে পরিচালনা কিভাবে হবে? ম্যানেজম্যান্ট কিভাবে হবে?
* আপনার প্রোডাক্ট/সার্ভিসের সেলস চ্যানেল কিভাবে তৈরি করবেন?
* আপনার প্রফিট মার্জিন কেমন হবে?
* প্রোডাকশন ব্যবসা হলে কাঁচামাল কোথায় থেকে আসবে? সেটা কি সহজলভ্য, সব সময় পাওয়া যাবে?
* ব্যবসা কি সারা বছরের জন্য না মৌসুমি?
* প্রফিট কি পুরোটাই পকেটে পুরবেন নাকি কিছু মুলধনে কনভার্ট করবেন?

Figure 5.13: Planning of entrepreneurship

Our services



Given below a figure 5.15 show a list of our services which is we provide in our website. And it's also provide some important government websites link which is useful to a entrepreneur.

Figure 5.14: Our service

Discussion

1. 2nd discussion is about what is the personal qualities of an ideal entrepreneur.

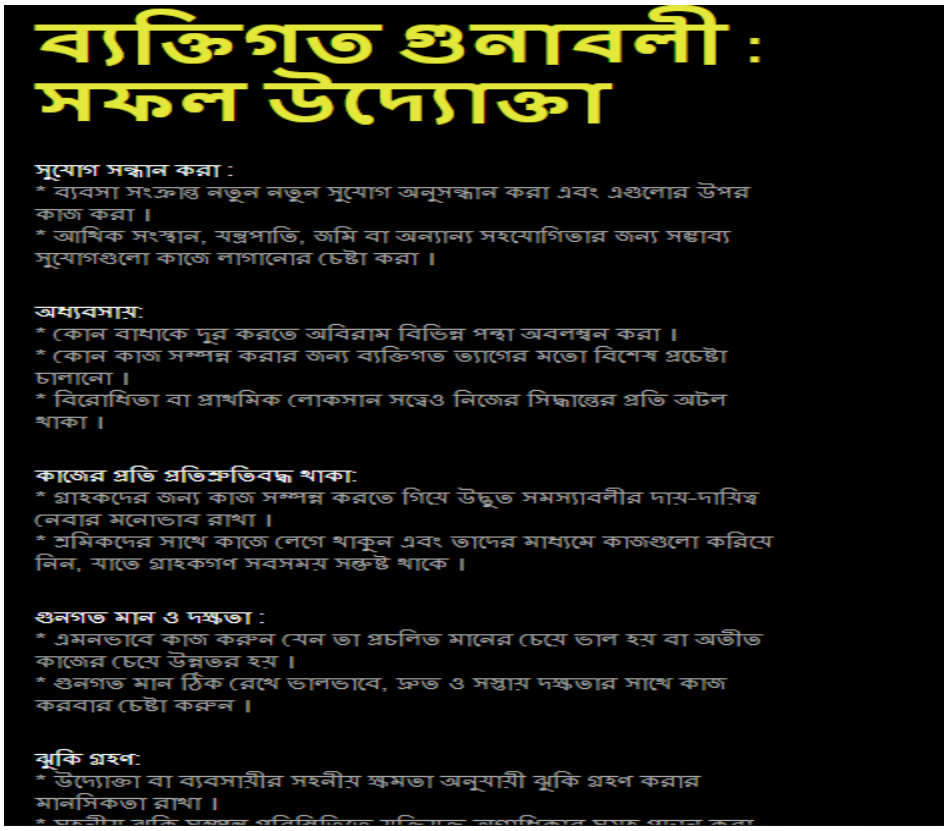


Figure 5.15: Personal qualities of an entrepreneur

Success News

Given below a figure 5.17 is about some success news in our countries entrepreneur:

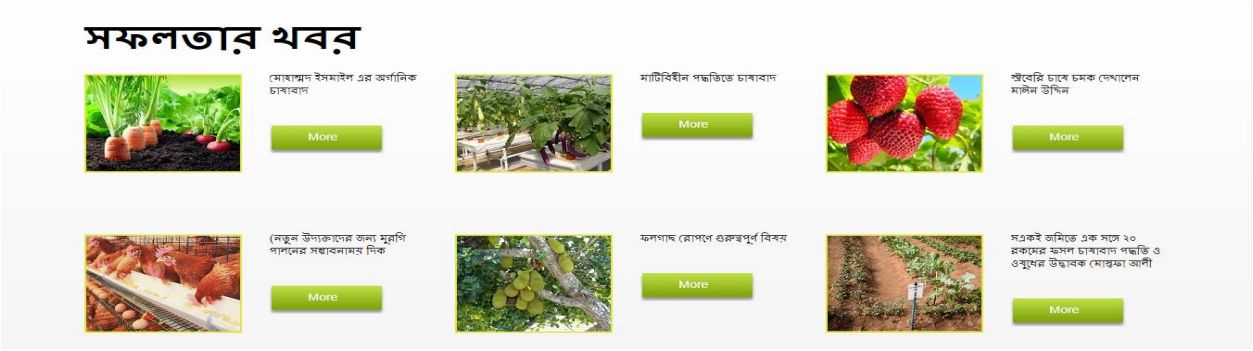


Figure 5.16: Some success news

Success Stories

Given below a figure 5.18 is about some successful persons success stories which is inspire you to be an entrepreneur:

Figure 5.17: Some successful persons stories

Farming Idea

1: The current menu is “Idea”. Figure 5.19 shows some agricultural ideas.

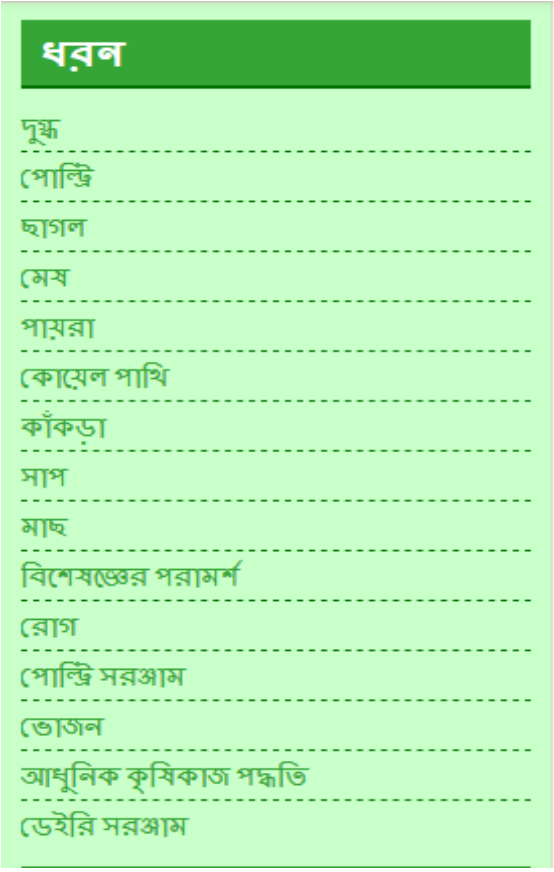


Figure 5.18: Some farming ideas.

1. Example: Figure 5.17 shows hybrid grass

Figure 5.19: Example of agricultural ideas

License for small business

The current menu is “License”. The content is why are you need a license and how to get a license . There are three categories of license. Figure 5.18 shows categories of license for small business.

Figure 5.20: Categories of license for small business.

License for medium business

The current menu is “License”. Figure 5.19 shows categories of license for medium business.

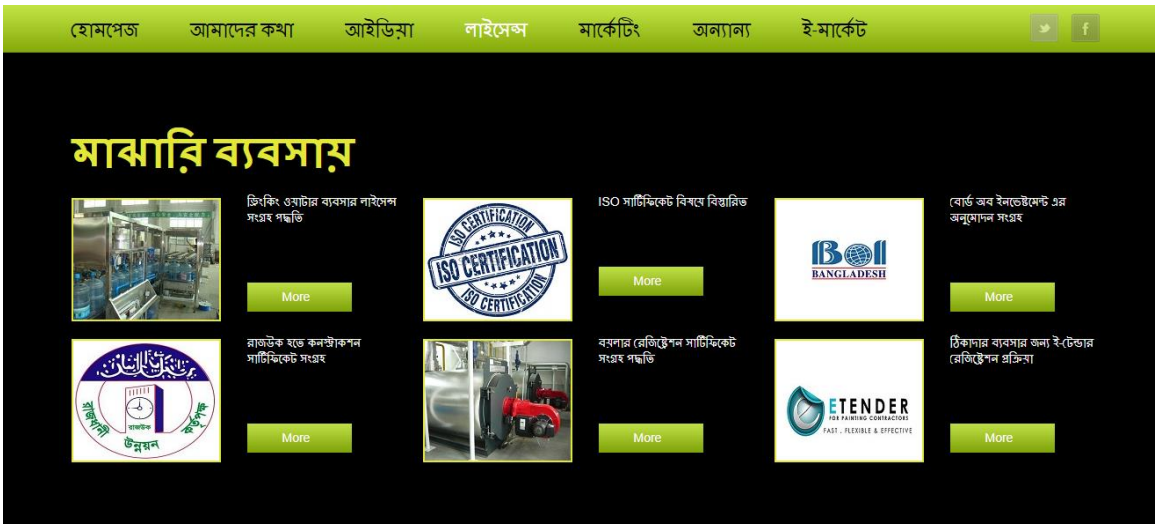


Figure 5.21**:** Categories of license for medium business.

License for large business

The current menu is “License”. Figure 5.20 shows categories of license for large business.

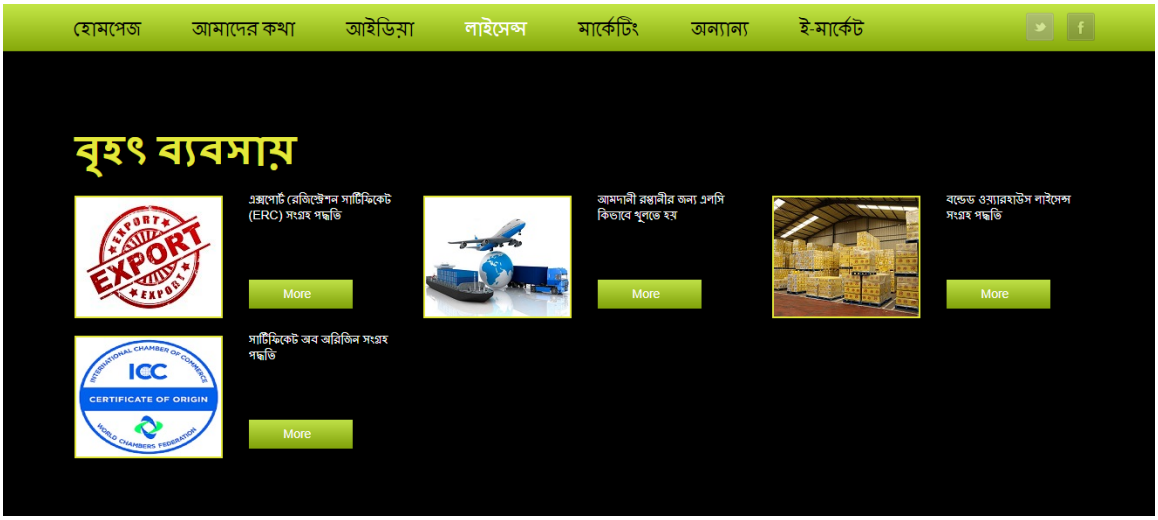


Figure 5.22: Categories of license for large business.

Product Marketing

The current menu is “Marketing”. Figure 5.21 shows the steps of product marketing and how could you be marketing your product.

Figure 5.23: Product marketing

Steps of Product Marketing

Figure 5.22 shows the steps of product marketing.

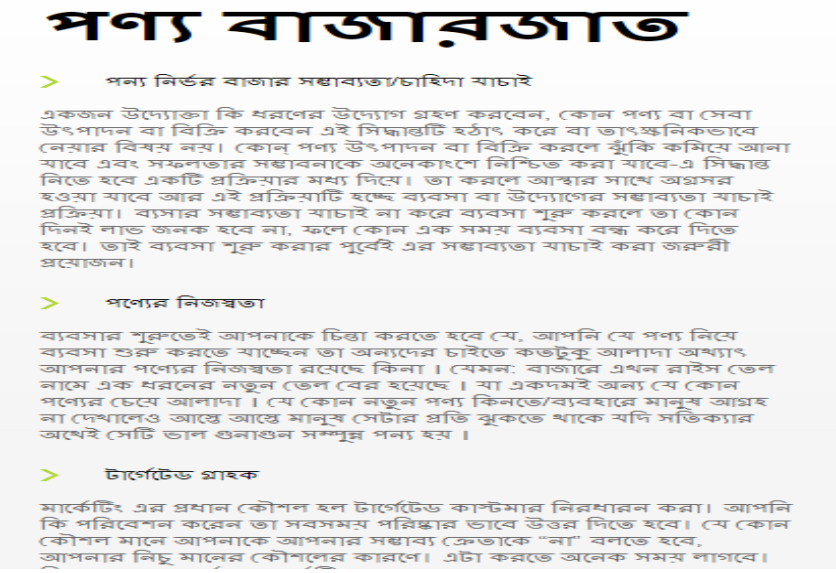


Figure 5.24: Steps of product marketing.

Marketing Strategy

1. Figure 5.23 shows some strategy for product marketing.

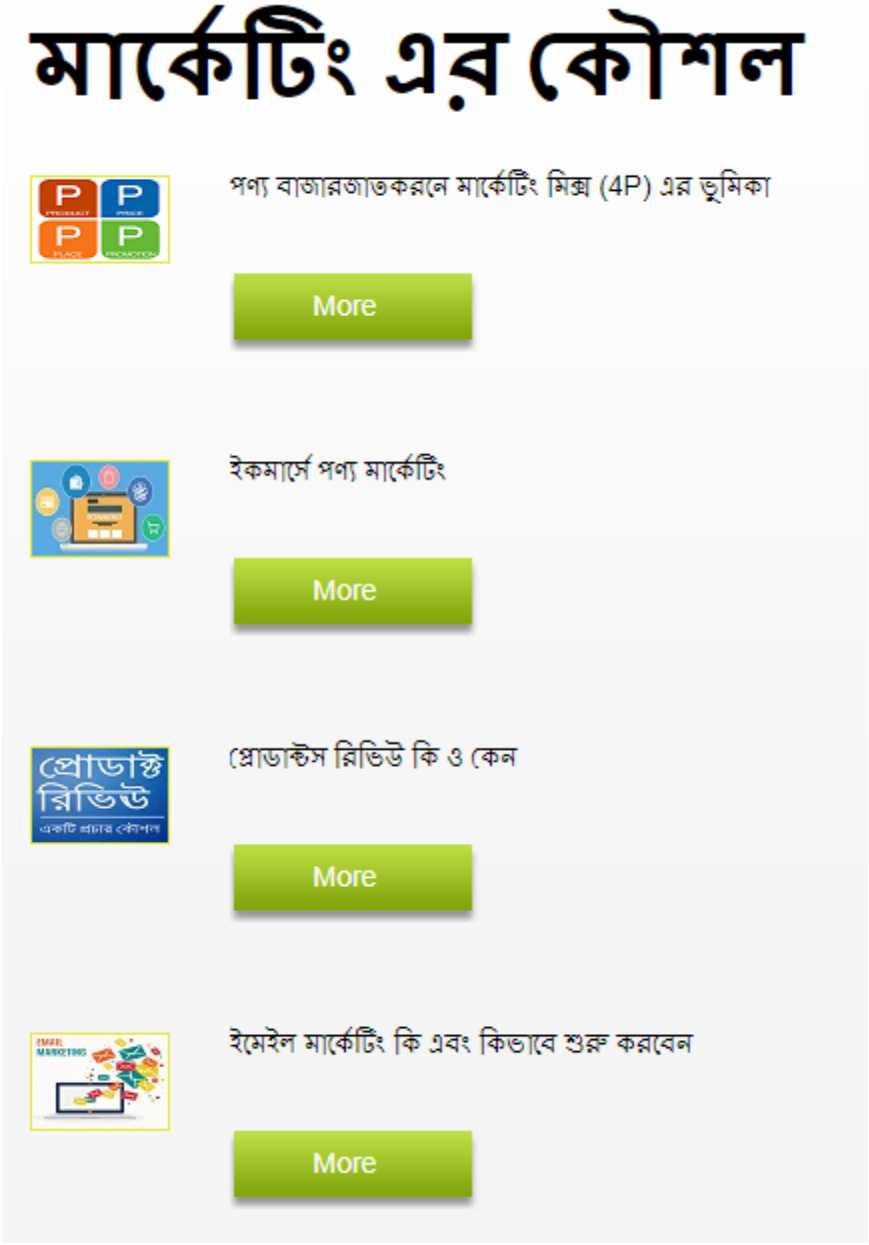


Figure 5.25: Some strategy for product marketing.

2. **Example:**

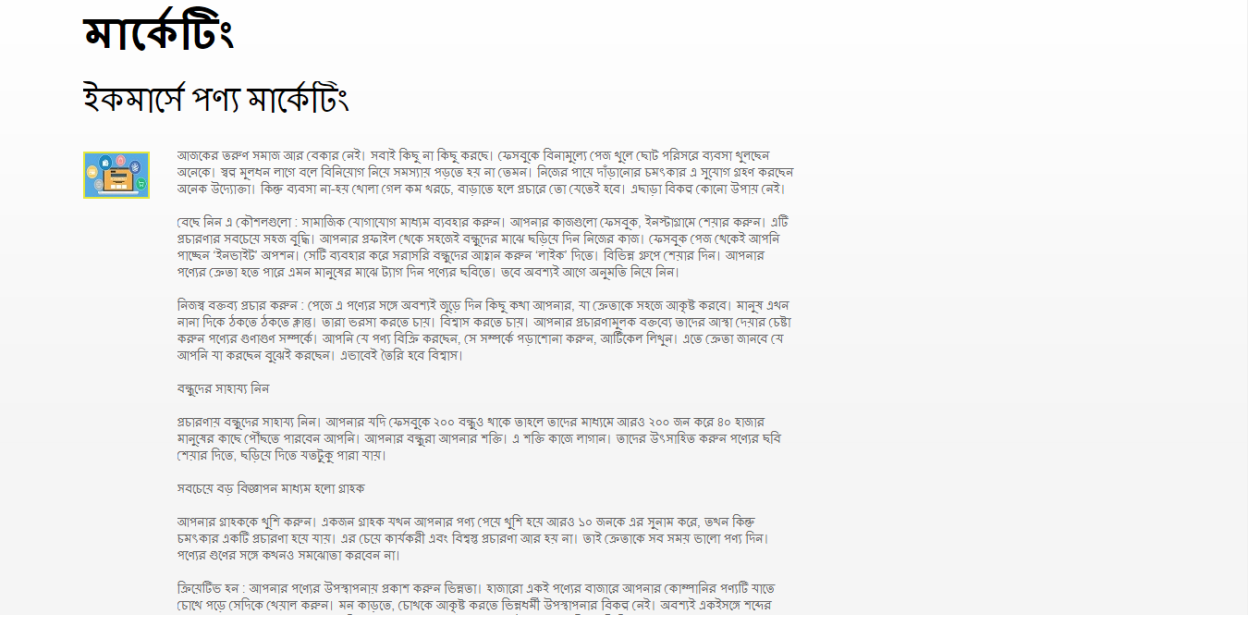


Figure 5.26: Example of strategy for product marketing.

1. Figure 5.26 shows a table where you can send your massage to the admin for help.

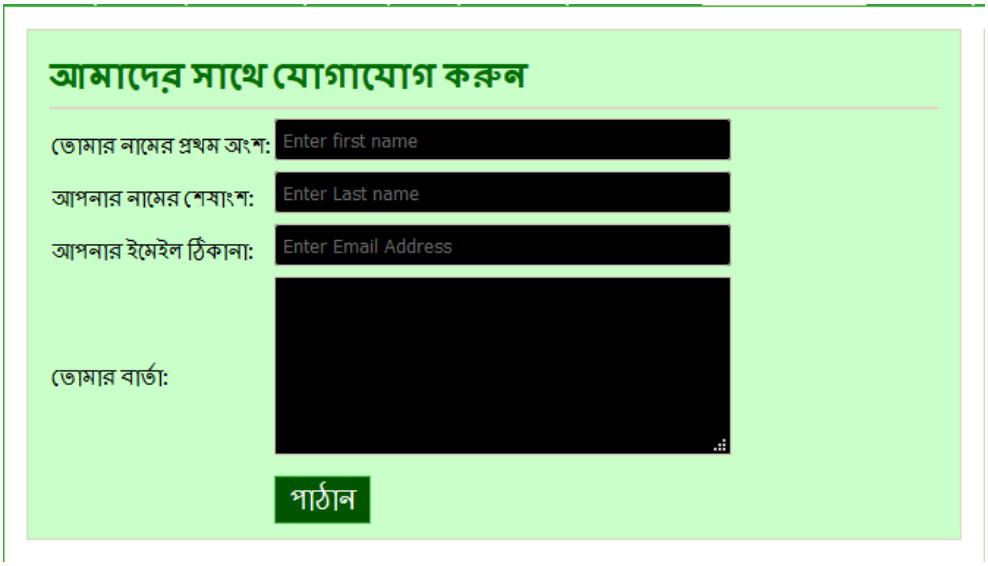


Figure 5.27: Contact form

Sign Up

Figure 5.28 show the register page to create a user account.

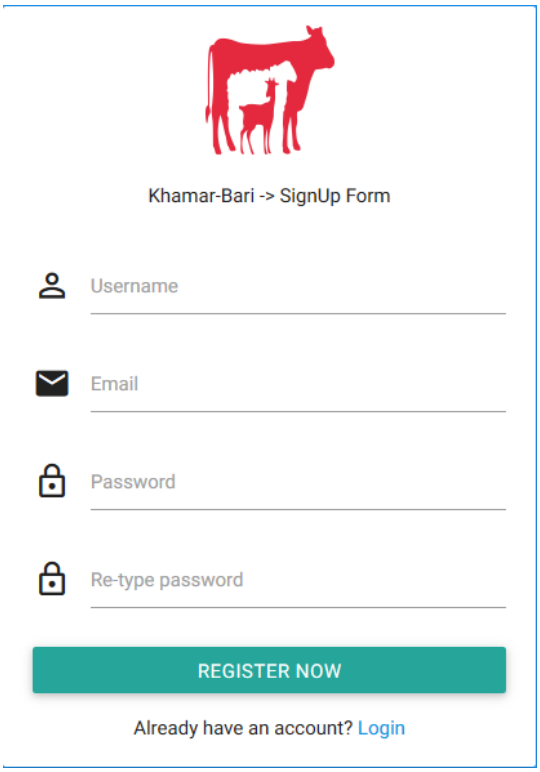


Figure 5.28: Register user

Footer

Figure 5.30 shows the footer part of our website.

Figure 5.29: Footer

CHAPTER 6

CONCLUSION AND FUTURE SCOPES

Whether you're just contemplating starting a business or have been in the trenches for a while, the sheer amount of web material available to help you start and grow a business can seem completely overwhelming. So, to save you the time and headache of sorting through all of it, here are the entrepreneur websites consistently ranked best by the entrepreneurs we know, including great resources on:

- Passive income.
- Startups and technology.
- Starting a small business.
- Marketing.
- Farming.

REFERENCES

[1] http://www.bari.gov.bd/

[2]http://www.moa.gov.bd/

[3]http://bangladesh.gov.bd/

[4]http://uddoktarkhoje.com

[5]http://badc.gov.bd/

[6]http://google.com.bd/

[7]http://facebook.com/

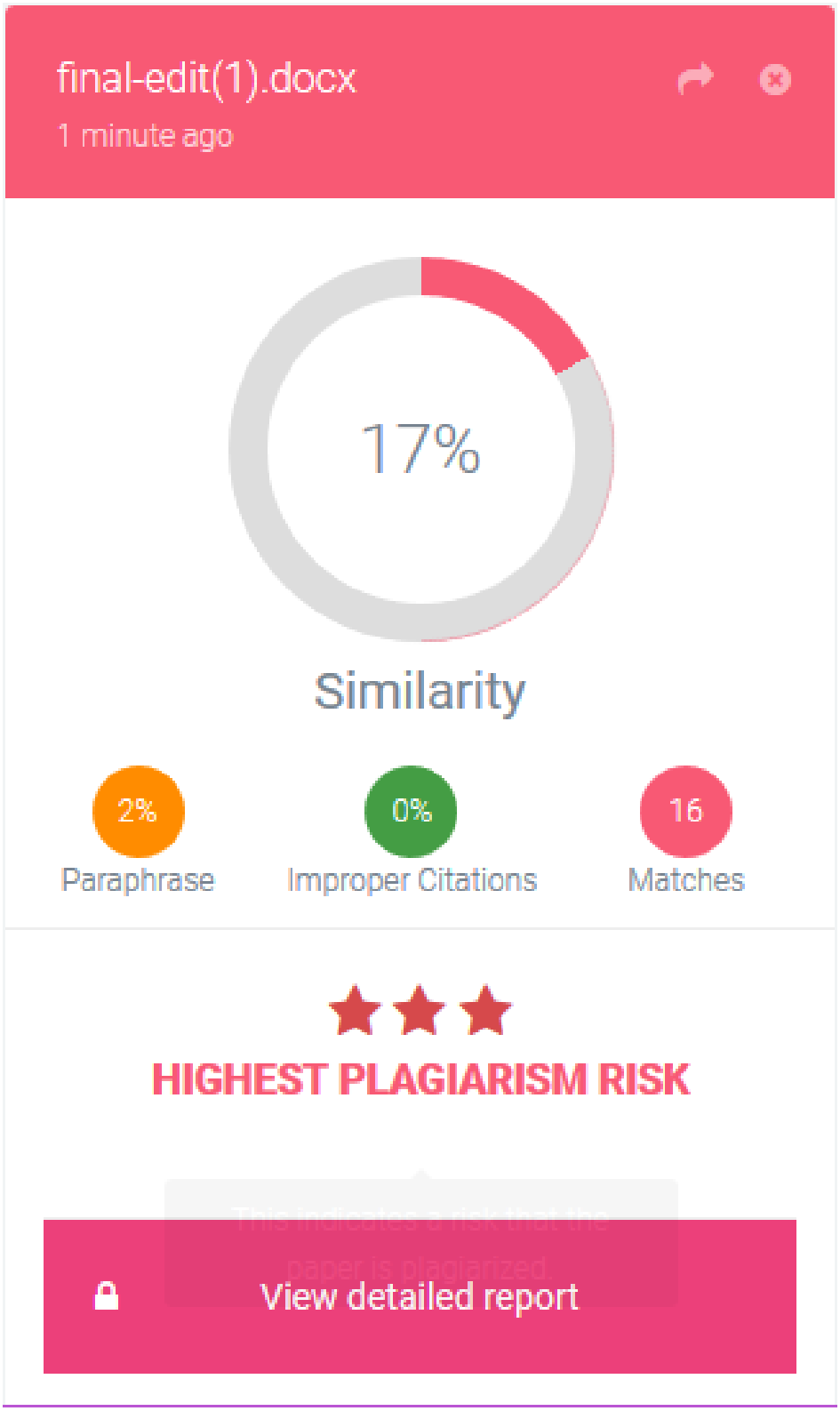
[8]**http://youtube.com/**

Etc.

APPENDICES

Project Reflection: From Fall-2016 semester we had started our journey for make a very interactive and attractive platform, where an entrepreneur was helped and also our farmers can learn about harvest. We followed the model for improvement to implement and monitor our interventions and were able to reach our aim.

The Project will be very helpful for the poor farmers and young entrepreneurs who want to do something new. As well as all kind of people want to shine in life. And it will be very useful for comfortably people. People will get all kind of entrepreneurship information and details by our web application called “khamar-bari.info”.

So, we believe that our “khamar-bari.info” will help our people to be an entrepreneur. It could be removing unemployment problem a little bit.

PLAGIARISM REPORT