



Department of Computer Science and Engineering

East West University

SOFTWARE DEVELOPMENT ON PHP

REPORT ON INTERNSHIP

CSE499: Internship

East West University

Bachelor of Science in Computer Science & Engineering

REPORT ON INTERNSHIP

CSE499: Internship

Submitted to

Dr. Md. Nawab Yousuf Ali

Associate Professor

Department of Computer Science and Engineering

East West University, Dhaka, Bangladesh

Submitted By

Mohammad Imran Rahman

2012-2-60-011

Performed at



Revo Interactive

357/10A Modhubag Moghbazar

Dhaka, Bangladesh

Internship attended: 1st June 2016 – 1st December 2016

Date of submission: 1st December 2016

Letter of Testimonial

Date: 1st December 2016

To,

Dr. Md. Nawab Yousuf Ali

Associate Professor

Department of Computer Science and Engineering

East West University, Dhaka, Bangladesh

Subject: Submission of internship

Sir,

With due respect and humble submission, I would like to state that I've completed my internship at **Revo Interactive** for the last 6 months. Though it is a new experience, I've tried my level best to gather information about related topics. Without sincere cooperation and proper guideline of you it was not possible for me to prepare this report. For this act of kindness I'm grateful to you.

I would like to express my gratitude for your kind guidance to completion of the report assigned to me. I sincerely hope that this report will meet your expectation and will serve its purpose.

Sincerely yours

Mohammad Imran Rahman

ID: 2012-2-60-011

Department of Computer Science & Engineering

East West University, Dhaka, Bangladesh



Letter of endorsement

To whom it may concern

Subject: Approval of the Report

This letter is to certify that, all the information mentioned in this document is true and not confidential to the company. The projects mentioned here have successful involvement of **Mohammad Imran Rahman, ewuid# 2012-2-60-011**, Department of Computer Science and Engineering, East West University, Dhaka, Bangladesh.

I wish him all the best and hope that he will lead a successful career

Internship supervisor

Abdullah Zabir Bhuyan

Chief Technology Officer

Revo Interactive

Safat Ibne Nazir

Business Development officer

Revo interactive

Acknowledgment

At the very first I'm thankful to the almighty Allah, that he allowed me to do my tasks. Without his kindness it won't be possible ever.

I'm lucky that I've got my honorable advisor and teacher Dr. Md. Nawab Yousuf Ali, Associate Professor, Computer Science and Engineering, East West University whose hearted and invaluable support with best concern and dedication acted as necessary resource and feedback to carry out my internship program and hence complete this report. For his kind association as well as supervision this task has come true.

I would also like to thank at my supervisor Safat Ibne Nazir, Business Development officer at **Revo Interactive** for allowing me for the internship program. I'm also thankful to my team leader, Abdullah Zabir Bhuyan. They have all provided their precious time and effort to school for completing my projects me throughout my intern period at Revo Interactive.

Letter of Acceptance

This internship report entitled 'Software development on PHP' submitted by **Mohammad Imran Rahman, ewuid# 2012-2-60-011** to the department of Computer Science and Engineering, East West University, Dhaka, Bangladesh is accepted as satisfactory for partial fulfillment of the requirement for the degree of bachelor of science on Computer Science and Engineering on December 1 2016.

Board of Examiners

1. ----- (Internship supervisor)
Dr. Md. Nawab Yousuf Ali
Associate Professor
Department of Computer Science and Engineering
East West University, Dhaka, Bangladesh

2. ----- (Chairperson)
Dr. Md. Mozammel Huq Azad Khan
Professor & Chairperson
Department of Computer Science and Engineering
East West University, Dhaka, Bangladesh

Table of content

| | |
|--|----|
| 1. Introduction | |
| 1.1 Objectives----- | 1 |
| 1.2 Motivations----- | 1 |
| 1.3 Overview of the Report ----- | 2 |
| 1.4 Limitations ----- | 2 |
| 2. Company profile | |
| 2.1 Introducing Revo Interactive ----- | 4 |
| 2.2 Technical Features ----- | 5 |
| 3. My works | |
| 3.1. Hire IT People website | |
| 3.1.1. Website link ----- | 7 |
| 3.1.2. Technical part ----- | 7 |
| 3.1.3. My tasks ----- | 7 |
| 3.2. Redcaps | |
| 3.2.1. Website link ----- | 10 |
| 3.2.2. Technical part ----- | 10 |
| 3.2.3. My tasks ----- | 10 |
| 3.3. Symphony ZVII micro site | |
| 3.3.1. Website link----- | 15 |
| 3.3.2. Technical part ----- | 15 |
| 3.3.3. My tasks ----- | 16 |
| 4. Improvements and tools | |
| 4.1. Technical | |
| 4.1.1. Operating system ----- | 19 |
| 4.1.2. Languages ----- | 19 |
| 4.1.3. IDEs ----- | 20 |
| 4.1.4. Tool ----- | 20 |
| 4.2. Non Technical ----- | 21 |
| 5. Conclusion & Recommendation | |
| 5.1. Conclusions ----- | 22 |
| 5.2. Recommendation ----- | 22 |
| 6. References ----- | 23 |

1. Introduction

Internship is a valuable system for undergraduates to connect up their scholarly involvement with industry honours. It gives undergraduates a chance to hone their aptitudes, pick up mastery through work on cutting edge creations and be acquainted with difficult genuine environment. This program gives any scholarly organization a chance to get fully informed regarding new industry slant. And also, enterprises get open door from Temporary job program to acquire the thought regarding the innovative work fields of the scholarly community. In a word, temporary job builds up connection between scholarly foundations and enterprises.

1.1 Objective

I love to code and solve problems with coding. My dream is to be a successful in software industry. For that reason I was trying from the beginning for my study. To reach my goal I started studying in Computer Science and Engineering. I'm thankful to the almighty that he gave me such an opportunity to study here at East West University where I got such guideline for my career. I'm thankful to my advisor that he allowed me to complete my final year Internship.

1.2 Motivation

Revo Interactive is one of the known Game and Web Development firm in Bangladesh, sincerely acknowledged me as an understudy and gave me opportunity to use my hypothetical learning in certifiable environment.

I stated my internship at Revo Interactive on 1st of June this year till 1st of December. Through this six month of my internship at Revo Interactive I've learned a lots of this which will be worthy enough for my career in the future.

The report has been set up as a satisfaction of a fractional necessity of the intern program. I have attempted my best to finish this report with my insight and astounding knowledge. I additionally attempt to introduce my specialized abilities and non-specialized aptitudes what I picked up as an intern. The result of my intern is exhibited in this report and this

report is set up as a prerequisite of the intern program. It portrays the employments performed in the association and also the encounters, discoveries and expert and individual ability improvement working in Revo Interactive. The essential goal of this report is to exhibit a general depiction of intern program at that organization.

1.3 Overview of the Report

In this report all the experience I've gathered working over there at Revo Interactive is listed. Challenges and how the work has gone so far is listed here. I've learned a lot of things in my intern period. How professionals work, I got that experience.

In my internship period I've worked on many projects. In some of them my contribution is little and in some of them I've worked most of the project. It was great to be a team player there. With the guideline of my team leader and cooperation of my teammates I've worked the projects listed below:

- Hire It website(CMS)
 - A web based application to post CV of individuals to find jobs
- Symphony zvii microsite
 - web based application that allows to make photo collage and share them on social network and by counting them finding a winner
- Red Caps
 - An application where different deals from different restaurants are listed. This application(for both mobile and web) helps customer to find deals around the restaurants in the city

1.4 limitations

There are a few confinements in this report. Every one of the substance can't be shared outside the workplace. I just chipped away at a specific venture and I was here for a brief timeframe. I depict in this report what I learnt from this organization and what inputs I got from my colleagues over there. Thus some of the time you may get a bird's eye view in some sections of my works.

I've designed this report is different sections to make this report being helpful for the teachers and students for further information in the future.

2. Company Profile

2.1 Introducing Revo Interactive



Revo Interactive, as a growing IT firm, makes every effort to set a unique benchmark of its own by ensuring excellent client service regarding website, software, games and business process outsourcing and aspires to keep growing until it becomes the best at its job.

Revo Interactive Profile at a Glance

| | |
|---------------------------------|--|
| Name of Company | Revo Interactive |
| Year Established | 2008 |
| Business Function | Video Game · Web Designer in Dhaka, Bangladesh |
| Corporate Office Address | 357/10A Modhubag Moghbazar Dhaka, Bangladesh |
| Website Address | www.revo-apps.com |
| Areas of Expertise | Website development, Software development, Augmented Reality(AR), virtual reality(VR), Games Development |
| Motto | Digitalizing Your Business |
| Vision | Is to empower dynamic organisations to embrace change simply, |

quickly and cost-effectively, through our innovative products and services.

Mission

Is to deliver and support adaptable business software and provide value-adding services in our markets that help organisations to manage their dynamic business needs effectively.

2.1 Technical Features:

- Language: PHP, HTML 5, CSS 3, JavaScript, JQuery, Ajax
- Database: MySQL, Oracle
- Animator Tools: Adobe Flash, SwishMax
- Android & IOS Mobile Application Development
- 3d Model, Logo Animation, Motion Graphics
- Wordpress and Jomla Development
- SEO, SMM, SEM & Content Writing

3. My works

For the last 6 months of internship at Revo Interactive I worked in different projects. In some of them just assisted my team members and some of the cases I worked most of it. It was a great opportunity to work in different real life projects. Facing challenges and meeting the timeline in real life projects gave me the thrill of this sector.

- **Hire It website(CMS)**
 - A web based application to post CV of individuals to find jobs
- **Red Caps**
 - An application where different deals form different restaurants are listed. This application(for both mobile and web) helps customer to find deals around the restaurants in the city
- **Symphony zvii Micro Site**
 - web based application that allows to make photo collage and share them on social network and by counting them finding a winner

Now in this section I'm going to share my experience working over there.

3.1 Hire IT People website

Hire IT People, LLC is a Certified Business Enterprise by the Department of Local and Small Business Development, Washington DC and a Preferred IT Staffing Vendor under the ITSA Program, a Supplier to Various State Agencies and Fortune 500 Clients.

This is a large website and is a long lasting project with development and maintenance. It has a huge amount of well organized data in database. Over 70,000 resume posts are there and increasing day by day. The challenge was to design a well organized and optimized database design fit for it. Though it was started early I was there in the development section.

3.1.1 Website link: <http://hireitpeople.com>

3.1.2 Technical part:

Programming language used here is PHP. We went through object oriented PHP for development. We used a MVC framework CMS built in Revo Interactive. We also used Javascript, Ajax, jQuery, and Json for making the website more user friendly and efficient. For database we used MySQL database system.

3.1.3 My tasks:

I was given the database and my task was to go through some bug fixing in the very beginning. I was first asked to go through the requirements and the finished works. We were just upgrading the site to a new version in our own framework.

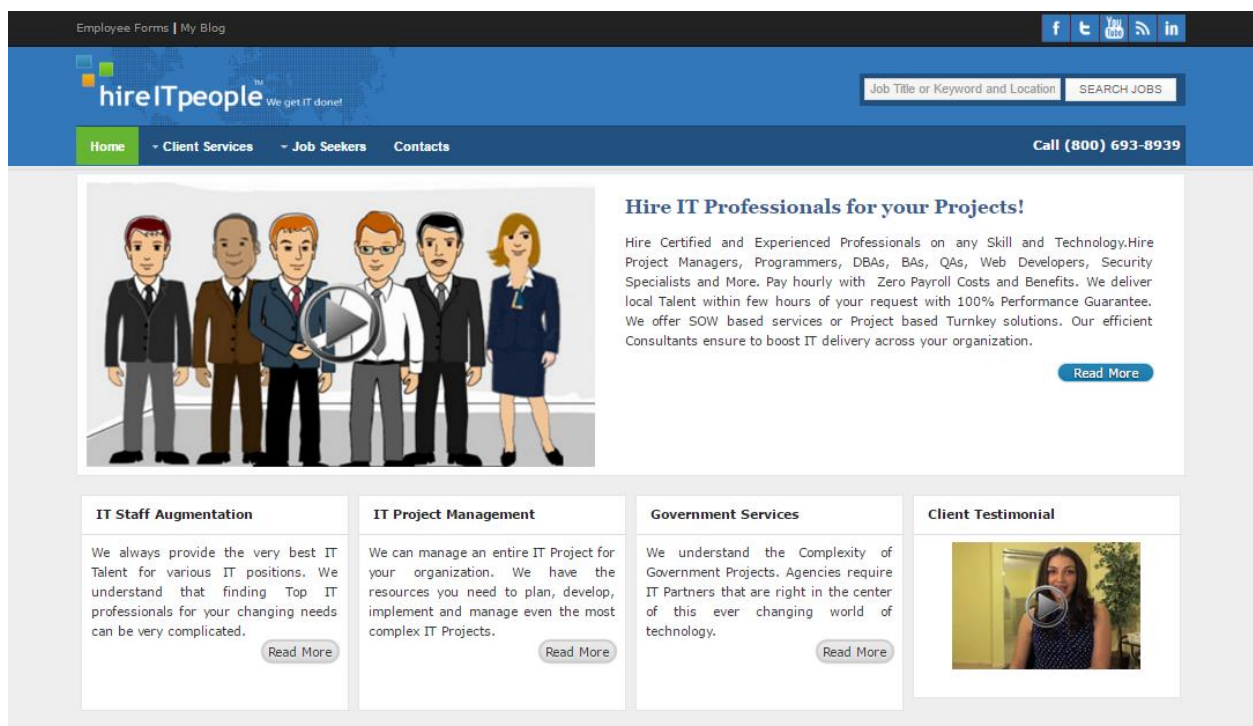


Figure 1.1: HireIT people website home page

It had a huge database with thousands of resumes and Job posts.

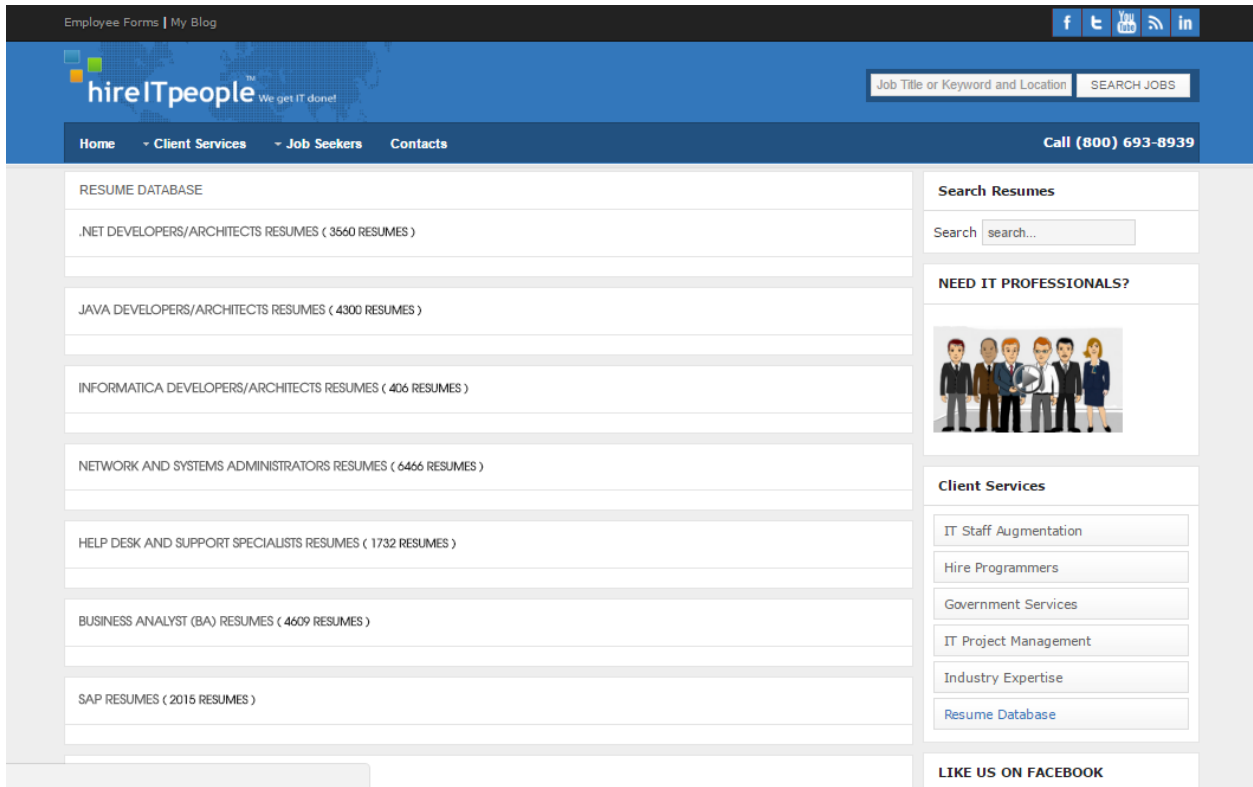


Figure 1.2: HireIT people website Resume database page

While managing the dependency and relation between the tables over there they have shown their professionalism. That design made my work easy.

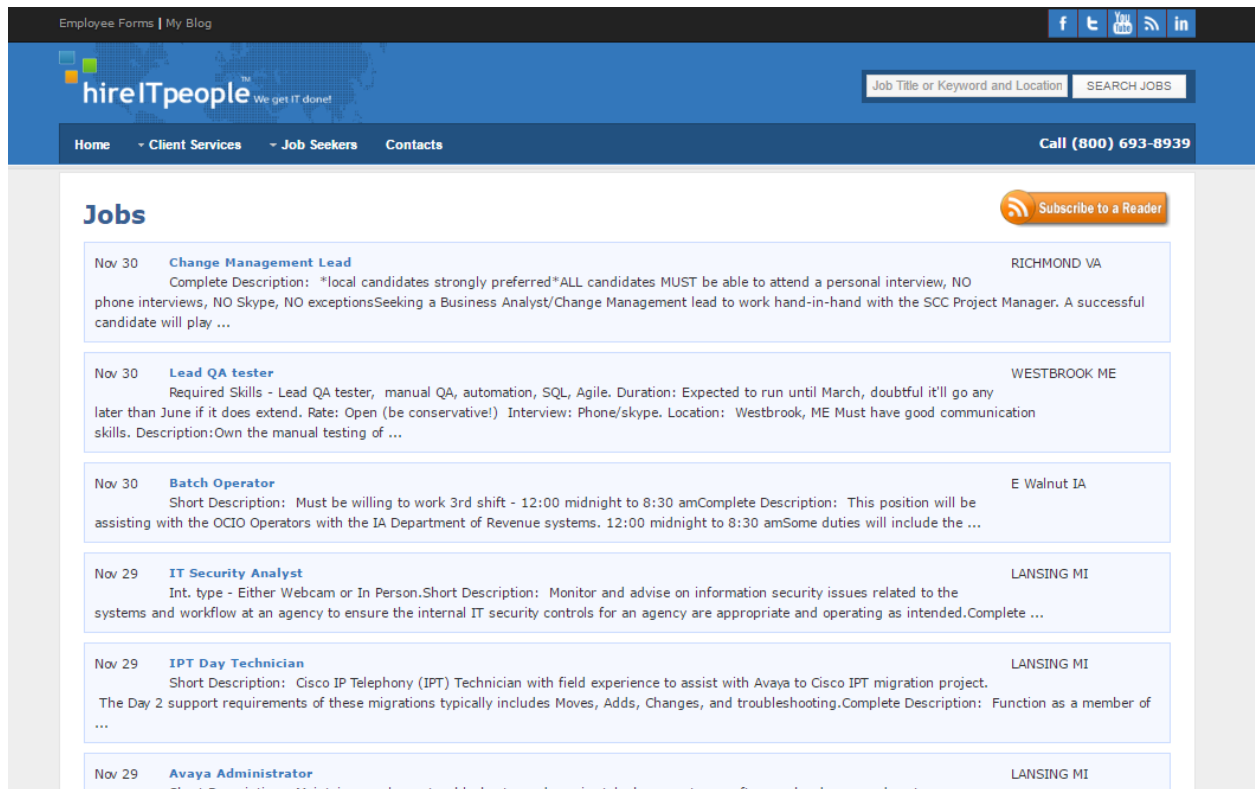


Figure 1.3: HireIT people website jobs page

As it is content based website, the challenge was to go through the SEO criteria. Every link and page had to design by keeping SEO conditions in mind.

I worked in the backed panel. Developing category management and post management was my task to do. As I was working with a running team I wasn't given a lots of tasks to do in the very beginning. But after a age I was assigned the works mentions previously.

It was a great opportunity to work in such a big project. I came to learn a lots of things while completing my tasks.

3.2 Redcaps

This is an application where different deals from different restaurants are listed. This application is built for both mobile and web helps customer to find deals around the restaurants in the city. Through this application customers get information about different deals and promotional offers in different restaurant and get discount offers. Using this application, a user gets points and using that point he gets different offers.

This application has two parts. One is web application panel and another is mobile application (Android and iOS). The web application panel is for the restaurant owners and admin. The mobile application is for the customers/users

3.2.1 Web panel link: <http://redcapsbd.com/admin>

3.2.2 Technical part:

Programming language used here is PHP. We went through object oriented PHP for development. We used a MVC framework CMS built in Revo Interactive. We also used Javascript, Ajax, jQuery, and Json for efficiency. For database we used MySQL database system.

3.2.3 My tasks:

My task was to build the admin panel/web application panel with my team member Mahfuz Ahmed under assessment of my supervisor. We developed the deal management, promotional offer management, transaction management and user management system.

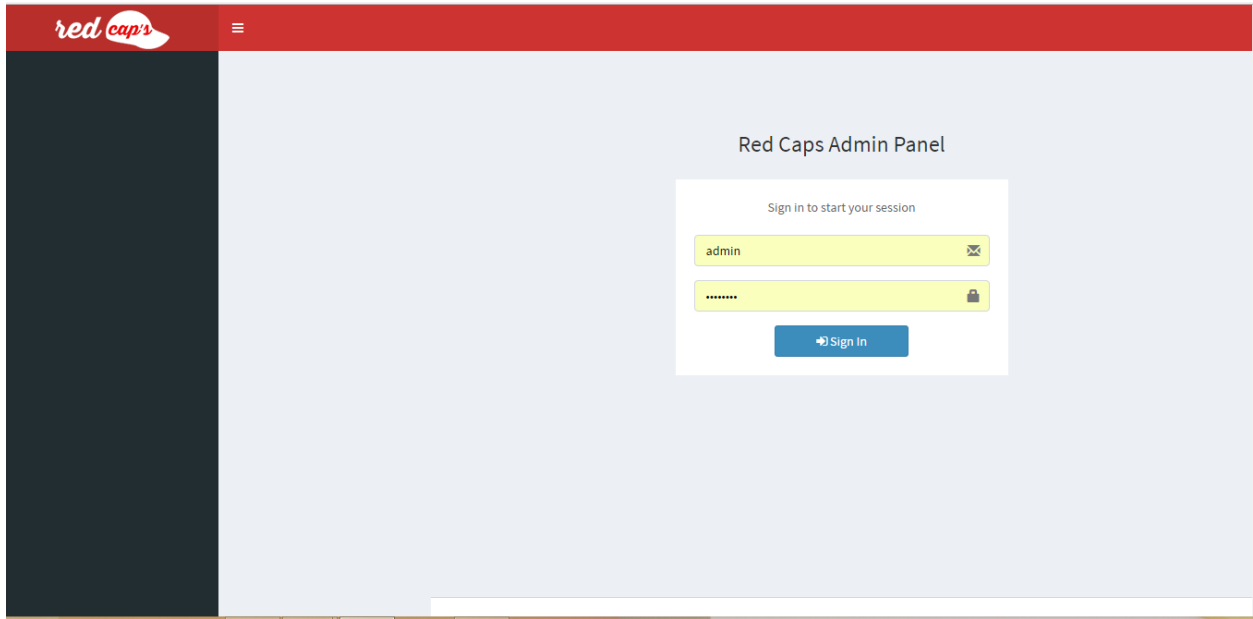


Figure 2.1: Redcaps admin panel login page

We also developed a low level API for mobile application use purpose, which was one the most important part of the project. That API provides the required information regarding the mobile application.

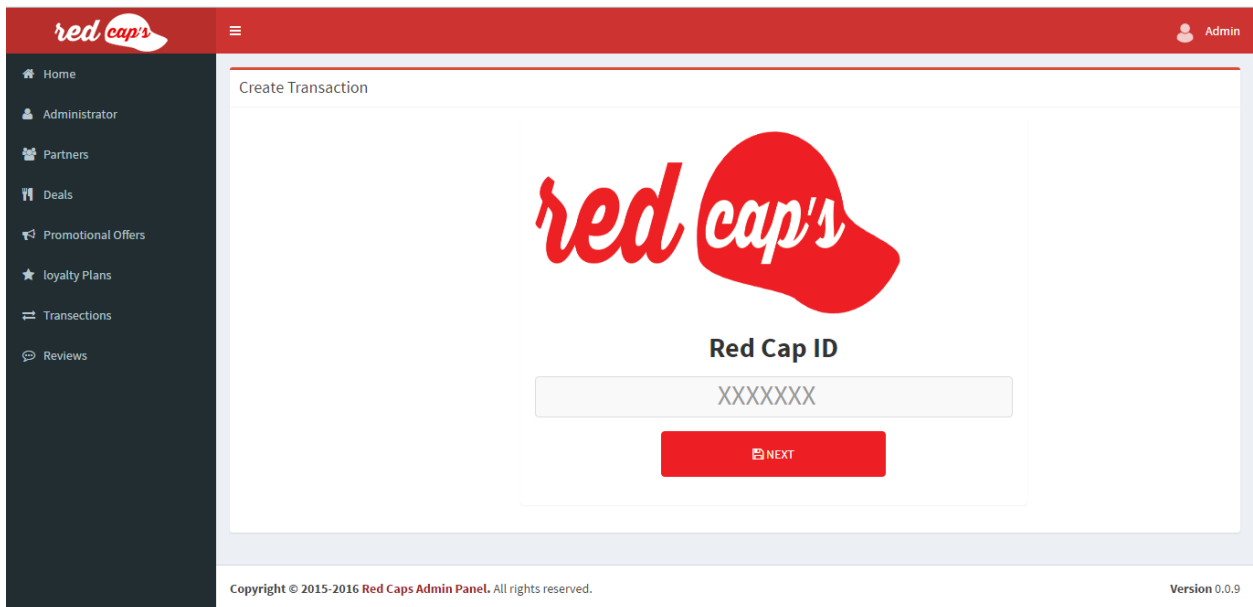


Figure 2.2: Redcaps admin panel – transaction page

The challenging part and also the most important part of the project was the transaction section, where user's transactions are done while purchasing any service from the enlisted restaurants.

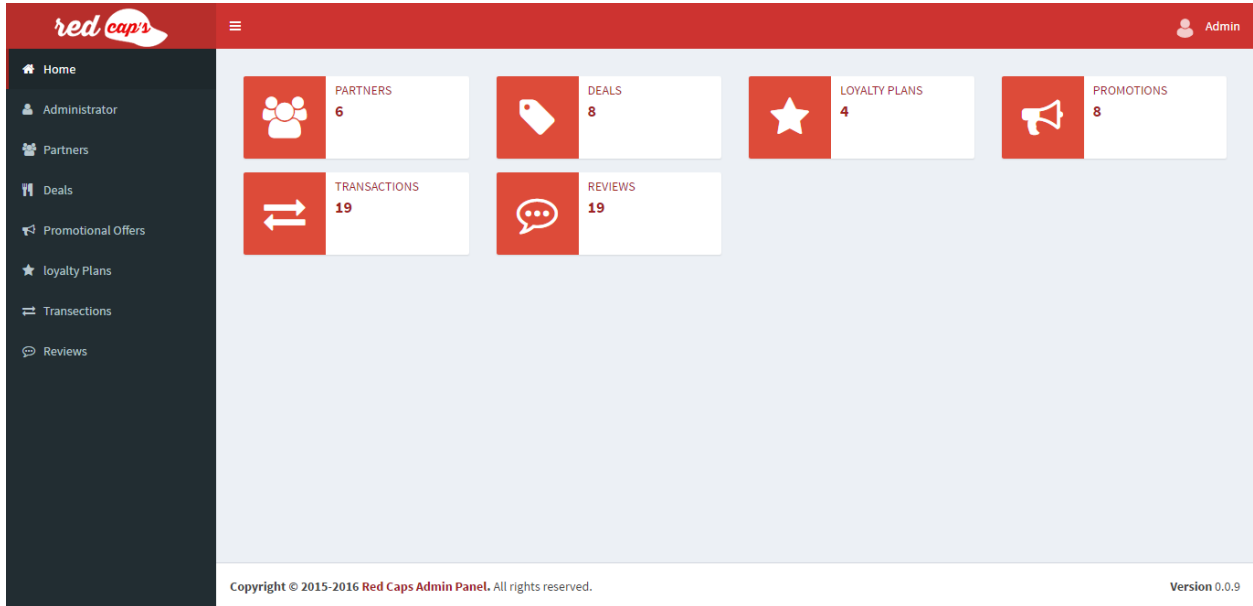


Figure 2.3: Redcaps admin panel - dashboard

User management: This panel manages different users in the admin panel

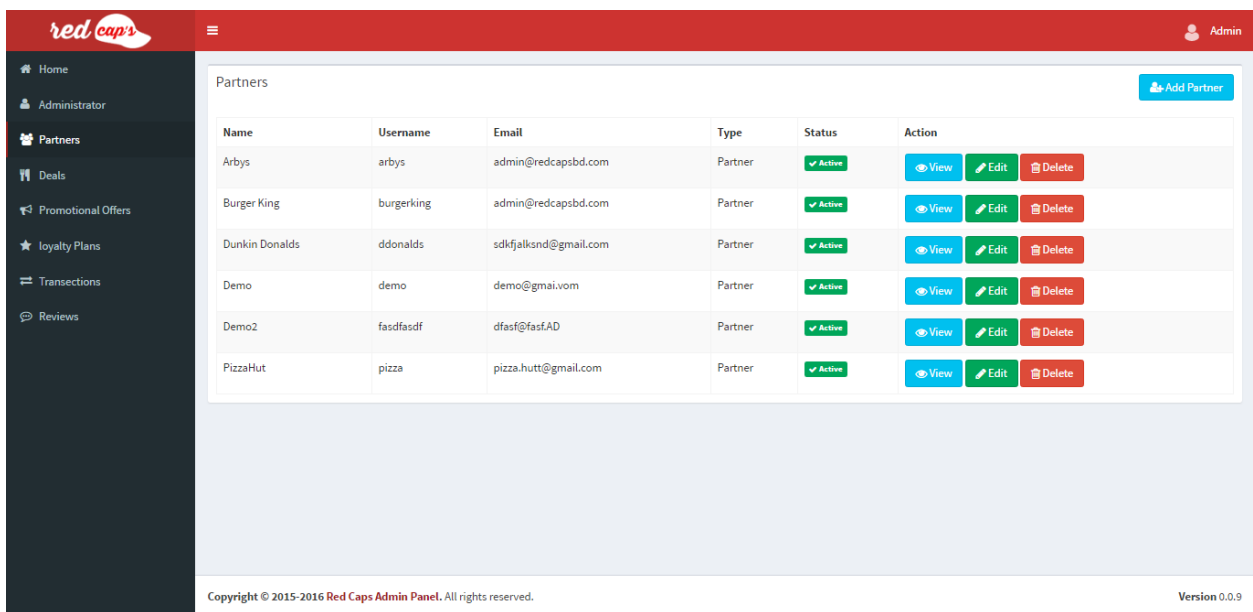


Figure 2.4: Redcaps admin panel – user management page

Deal management: This panel is to manage different deals given by the restaurants owners

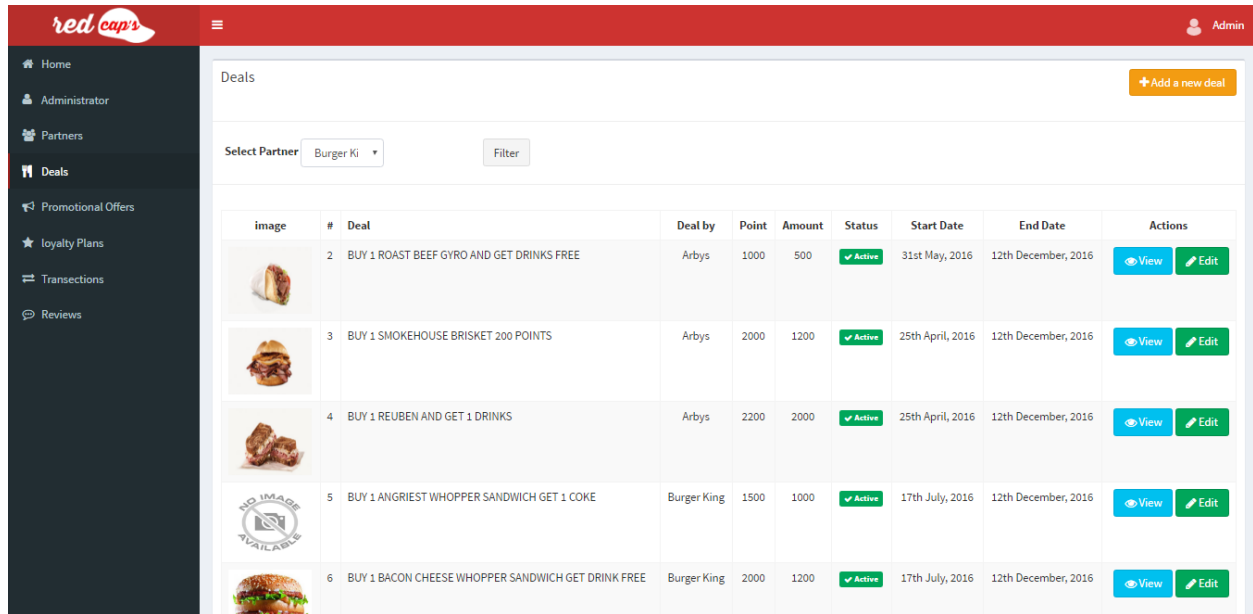


Figure 2.5: Redcaps admin panel – deal management

Promotional offer management: Promotional offers from different restaurant are listed

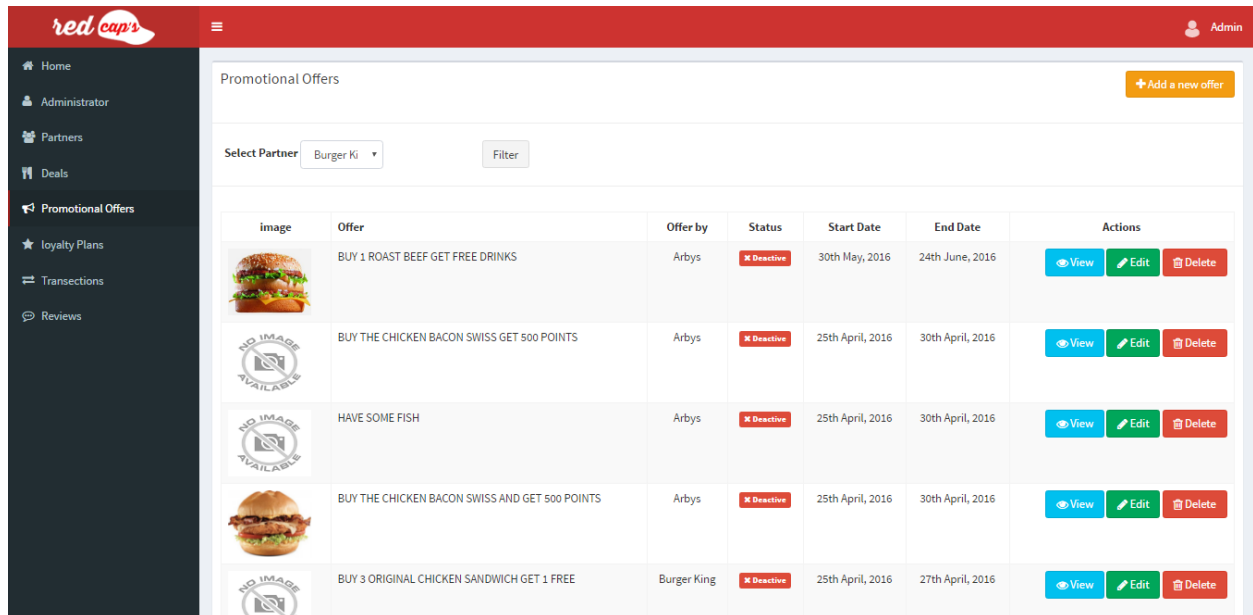


Figure 2.6: Redcaps admin panel – promotional page management

Loyalty plan management: Different loyalty plans of the restaurants are managed here

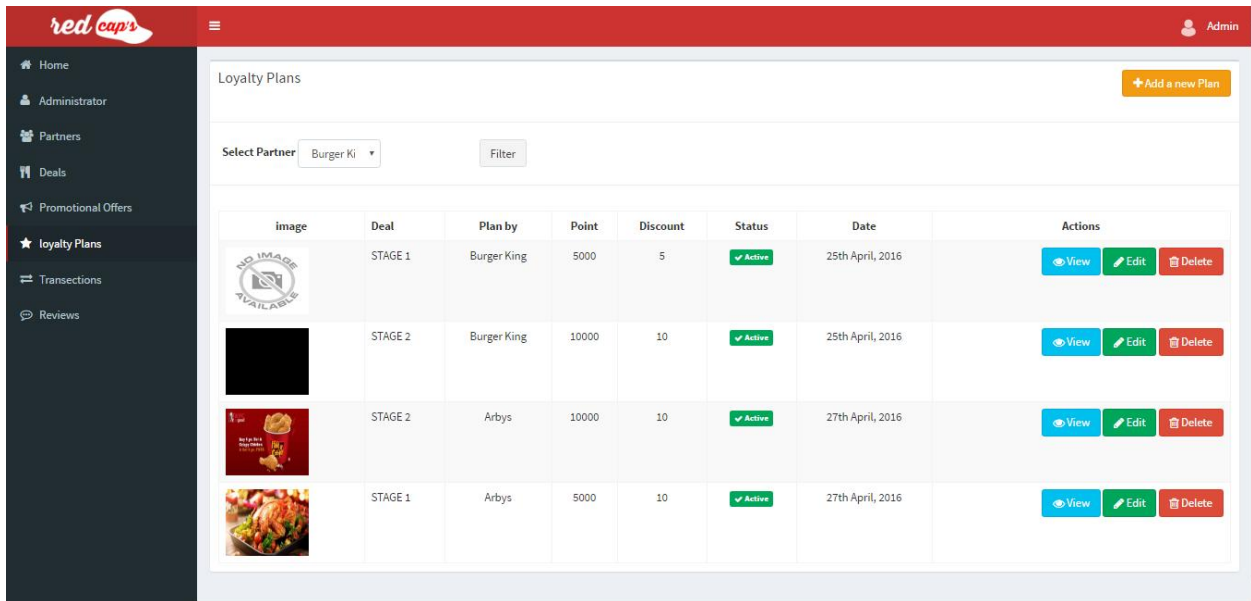


Figure 2.7: Redcaps admin panel – Loyalty plan management

Transactions: After any purchase transaction is made from here. Users are awarded different credit points and upgrade their level.

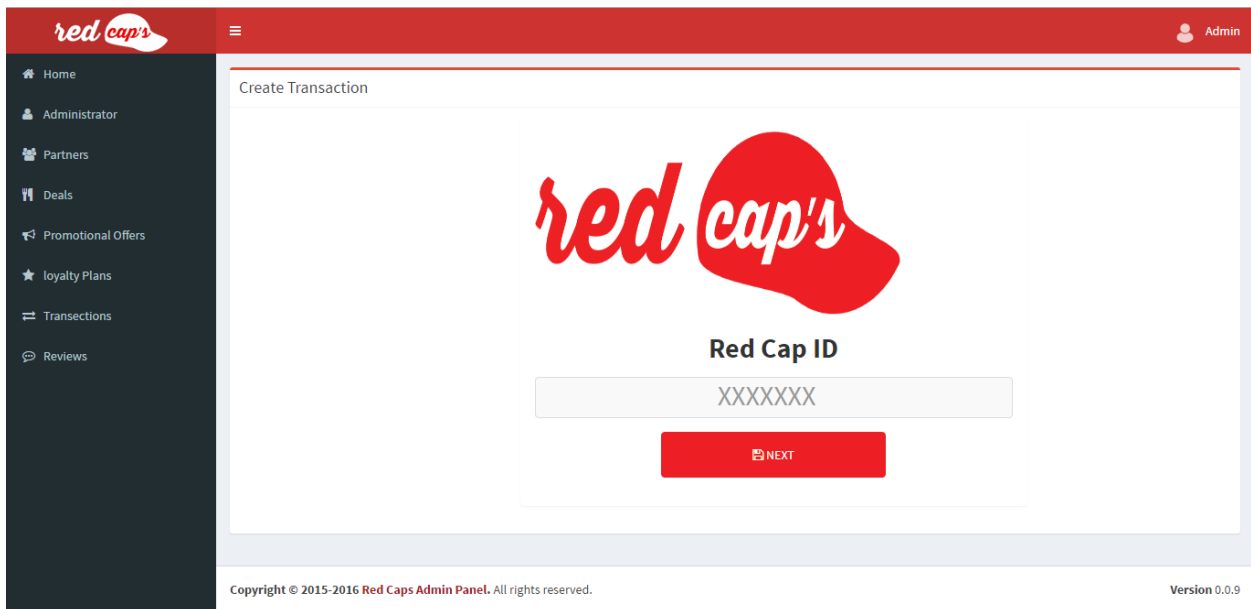


Figure 2.8: Redcaps admin panel – transaction management

Challenges that I faced is in transaction section. Handling user transactions and rating point has been done very carefully.

3.3 Symphony ZVII Micro Site

Symphony ZVII Micro Site is a web based application that allows to make photo collage and to share them on social network. This was a promotional website for Symphony – a renown mobile phone brand on their new handset device named symphony ZII.

In this application a user has to login through his/her facebook account and create photo collage according to their choice. After creating a photo collage they had to share that on facebook time line.

After a fixed time of sharing post, the judging panel counts the number of likes and shares on every post. The post has most likes is selected as winner

3.3.1 Web panel link: <http://revo-apps.com/demo/microsite>

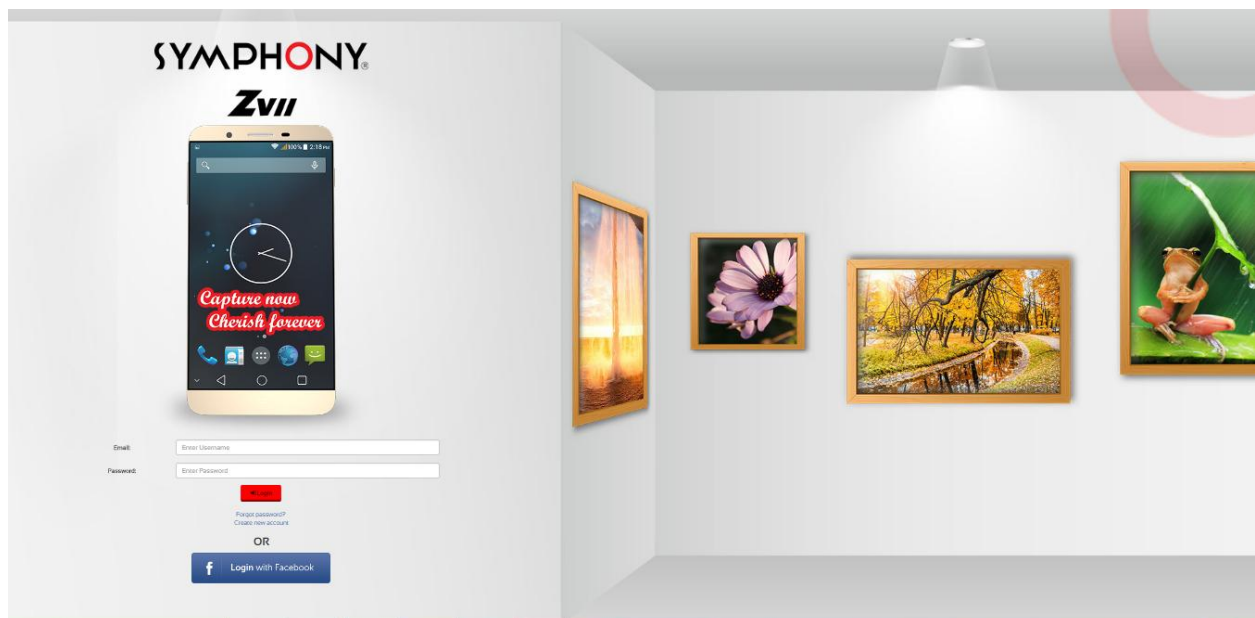


Figure 3.1: Symphony micro site web panel login page

3.3.2 Technical part:

Programming language used here is PHP. We went through object oriented PHP for development. We used a MVC framework CMS built in Revo Interactive. We also used Javascript, jQuery for efficiency. For database we used MySql database system.

We also used Facebook Graph API in this application for login and statistics.



Figure 3.2: Symphony micro site web panel - dashboard

3.3.3 My tasks:

My task was to build the admin panel/web application panel under assessment of my supervisor. We developed the full system with statistics and sharing module. We got help in UI design from our design section of office

Gallery: All photo collages made by a user is given here.

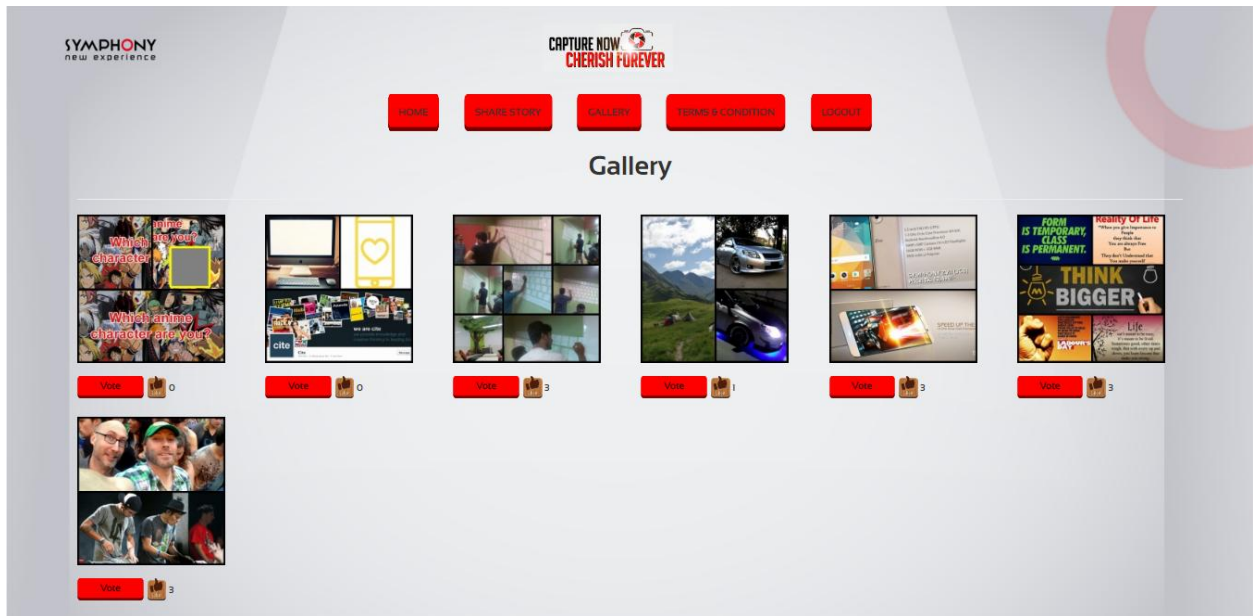


Figure 3.3: Symphony micro site web panel - gallery

Making photo collage: user use this panel to make different photo collage

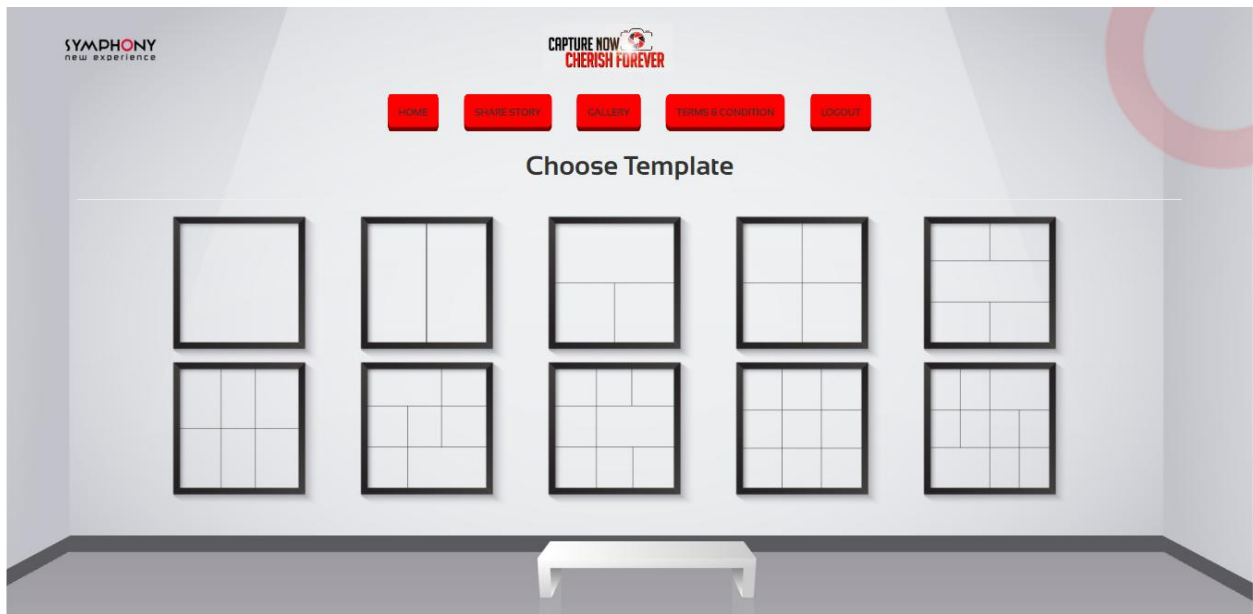


Figure 3.4: Symphony micro site web panel – photo collage making panel

Sharing post: After a successful post user can share and give vote from this panel

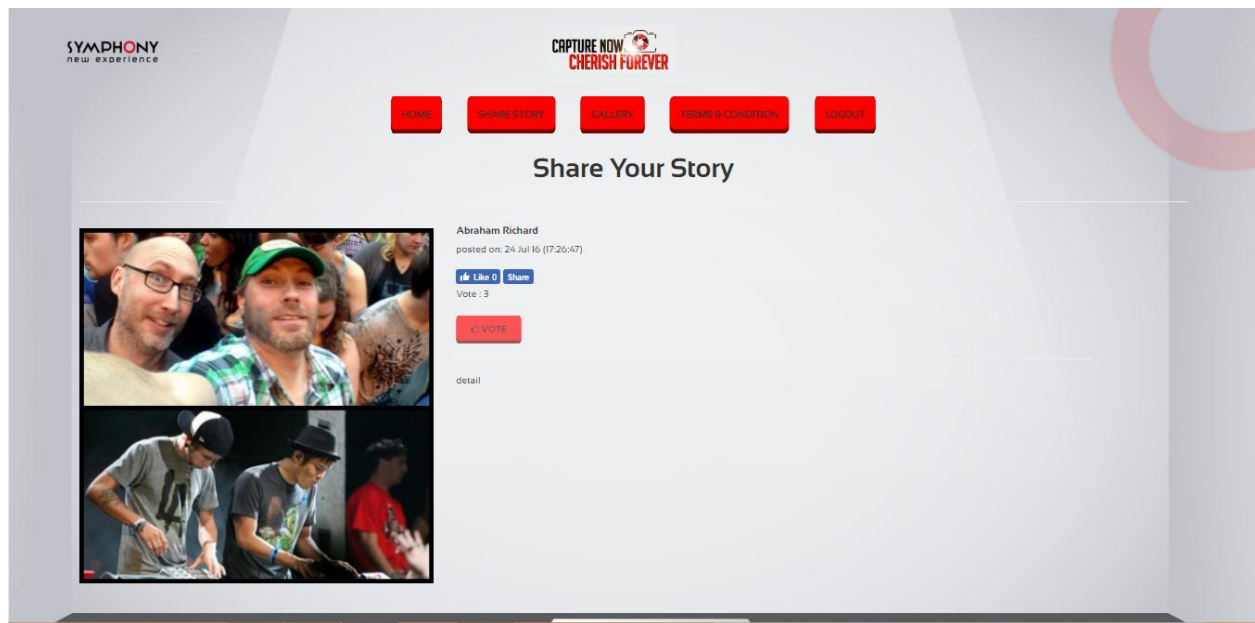


Figure 3.5: Symphony micro site web panel – Post detail page

Challenges I faced here is to implement facebook graph API, as I was doing this for the first time. For cropping we used a jQuery Plugin which helped us developing the application fast.

4. Improvements

4.1 Technical

Before joining there at Revo Interactive, I developed some web applications and websites. But after joining there, I came to know many other technical things which helped me to improve my skills.

I came to know different development criteria, how to complete a work in more efficient way. I've learned about different development tools and IDEs.

This are shared in the section below:

4.1.1 Operating System:



4.1.2 Languages:





4.1.3 IDEs:



Sublime Text

4.1.4 Tool:



This was a great opportunity for me to work with some specialist in some of the language enlisted above which helped me to improve my skill and coding style.

4.2 Non Technical

Beyond technical improvement I have lots of no technical improvement as well. Time maintenance is one of the major issues, which I improved by working there in my internship program. How to manage a project as well as preparing time chart has a great impact on my timing issue.

How to meet project on time is the key thing I learned from here.

How to how as a team and sync works is another major thing that I have improved. For this my communication skill has gone high. Met different people with different mentalities and work with them as a team has played a important role in my skill improvement.

That's why I'm thankful to my team members there at Revo Interactive and specially my supervisor Safat Ibne Nazir. I'm very lucky that I've got someone like him as my mentor. Without his guideline it wasn't possible for me to match up there.

How to manage an IT firm, how to communicate I've learned from him. So this is one of the best achievements of my internship.

5 Conclusion & Recommendation

5.1 Conclusion

In my Internship, it was a so much important that I was able to do the theoretical methods in real life. I can see the real outcome of that theory which was like a dream come true for me. I have passed the best scholastic period in my life by encountering this present reality innovation.

I am thankful to my varsity for giving me this opportunity for internship. This helped me to gain idea of the competitive environment in the professional field. It has positively lifted my development abilities regarding outline and coding. I now anticipate confronting the forthcoming difficulties of the world.

Revo Interactive is the best firm that one can get to work in. I've find every individual very friendly and helping. Along with all the stuffs and employees, the management has a friendly relation. That's why working is fun over there. I'm really thankful to my supervisors and team members as well as the office stuffs.

This was a great opportunity to work there. I was really enjoying my work there. This will help me to do wall in my future.

5.2 Recommendation

I'm grateful to my supervisor Safat Ibne Nazir for allowing me to work at Revo Interactive. Without him it was not possible to work there and learn so much thing form there. I'm also thankful to my course supervisor **Dr. Md. Nawab Yousuf Ali** sir. He is one of the best teachers I've met in my student life.

6. References

1. <http://revo-apps.com>
2. <http://php.net>
3. <http://redcapsbd.com/admin>
4. <http://revo-apps.com/demo/microsite>
5. <http://hireitpeople.com>
6. <https://en.wikipedia.org>
7. <https://jquery.com>