

APPENDIX

Periodic Progress Report

Periodic Progress Report : **First PPR**

Project Sensor Based Smart Coupon Distribution And Tracking System
:

Status : Submitted (Freeze)

What Progress you have made in the Project ?

I have got to learn new technologies like asp.net, AJAX, JQuery, HTML5, CSS3 along with new concepts of SQL and database which can be used while development only.

What challenge you have faced ?

I have faced challenges in learning new technologies and understanding new frameworks.

What support you need ?

We needed the support of our project guide as well as several sites like MSDN, Android Developers' , JQuery Forum etc. along with search engine google and Stack overflow.

Which literature you have referred ?

We have used Black book of java with several websites available to learn asp.net and Android.

Periodic Progress Report : **Second PPR**

Project Sensor Based Smart Coupon Distribution And Tracking System
:

Status : Submitted (Freeze)

What Progress you have made in the Project ?

We have started Android application and along with that we are learning android from Internet and respected faculty members.

What challenge you have faced ?

We have faced some challenges in cross-platform connectivity as well as webservice.

What support you need ?

We hardly needed any external support. We are doing good from Internet only.

Which literature you have referred ?

We have referred some online sites like stack overflow, code projects, androidhive, android's developers' site and google for rest.

Periodic Progress Report : Third PPR

Project Sensor Based Smart Coupon Distribution And Tracking System
:

Status : Submitted (Freeze)

What Progress you have made in the Project ?

Started working on Android application.

What challenge you have faced ?

Faced challenges in server connectivity with Android Application.

What support you need ?

We needed support of college faculties and Internet helped a lot.

Which literature you have referred ?

we referred various books for Android along with websites like Android.developers.com , [stackoverflow](http://stackoverflow.com).

Periodic Progress Report : Forth PPR

Project Sensor Based Smart Coupon Distribution And Tracking System
:

Status : Submitted (Freeze)

What Progress you have made in the Project ?

We have learn a lot.

What challenge you have faced ?

We have faced some challenges in learning new technologies.

What support you need ?

we needed support from faculty members as well as internet.

Which literature you have referred ?

we have referred some literature like stack overflow , google books, etc.

BMC Report

The Business Model Canvas is a pictorial representation of your creative process of envisioning one or more prototype models in a process of transformation or development of a high-level characterization of your firm/business

1. The whole BMC sheet:



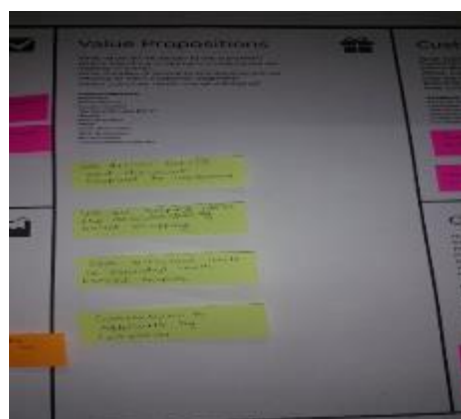
2. Each canvas elements:

The elements are:

1. WHAT:

1.1

Value Proposition:



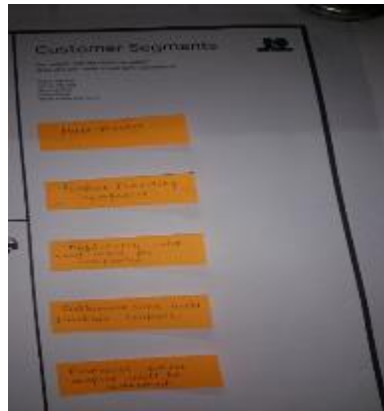
It describes that which problem are we going to solve given by the customer.

- We deliver benefit and discount coupons to customers.
- Helping solve the drawbacks of online shopping.
- Each customer will be provided with benefit coupons.
- Commission to affiliate by companies.

2. WHO:

1.1.

Customer Segments:

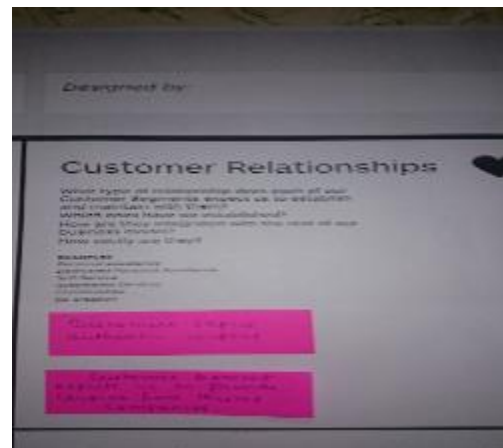


It describes that who will be our most valuable customer for whom we are going to develop the system.

- Mass market.
- Coupons providing companies.
- Affiliates who will work for companies.
- Customers who will purchase coupons.
- Franchise where coupons will be redeemed.

1.2.

Customer Relationships

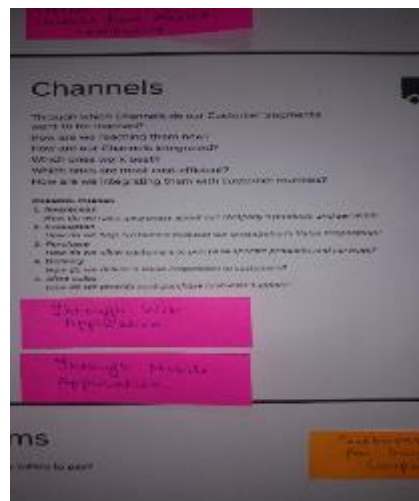


It describes that how the customer segment aspect us to develop the relationship.

- Feedback
- Customers expect authentic coupons and that also from trusted companies.

1.3.

Channels



It describes that what channel we would like to use to reach to our customer segment.

- Through web application.
- Through mobile application.

3. HOW:

1.1.

Key Partnerships

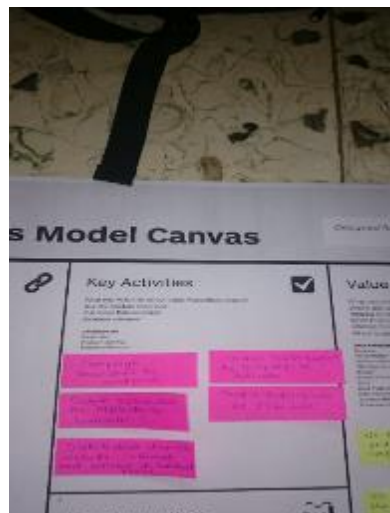


It describes the supplier from which our key components are been supplied which are as follows:

- Coupon providing companies.
- Promotional Partners.
- Partners will generate campaigns.
- Partners will supply coupons.
- Key resources required for coupons.

1.2.

Key Activities



It describes that what are the key activities need for revenue stream , distribution channel and customer relationship.

- Campaigns generated by companies.
- Coupon distribution by affiliates to customers.
- Coupon distribution by customer to franchise.
- Distribution channels include internet and android applications.

1.3.

Key Resources



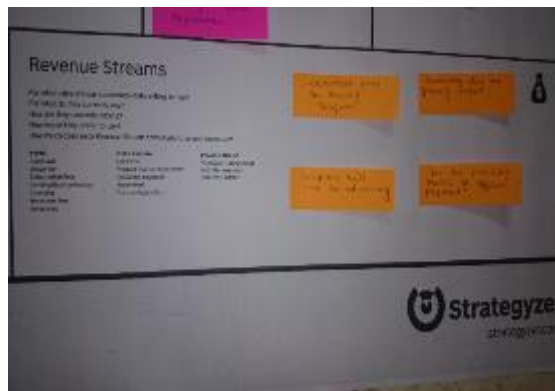
It describes that what are the key resources need for the establishing a connection and for the employees.it includes:

- Offers or campaigns generated by companies.
- Financial resources will be acquired by Advertising.
- Affiliates of companies who will distribute coupons.
- Franchises where coupons will be redeemed.

4. HOW MUCH:

1.1.

Revenue Streams

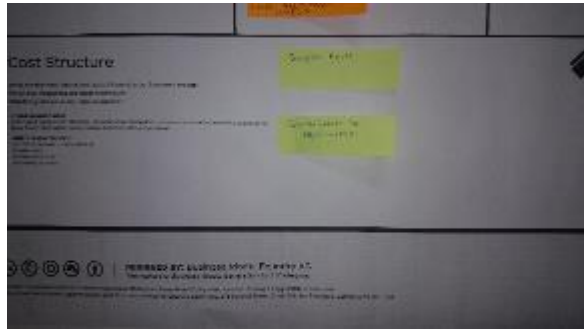


It describes that for what do our customer current pay and which form of finance scheme involves so as how would they be interested to pay to us.

- Customers pay for buying coupons.
- Currently they are paying online only.
- Company will pay for advertising.
- We are providing means of offline payment.

1.2.

Cost Structure



It describes that what will be the most important cost which would be included in our System development.

- Coupon costs.
- Commission to affiliates.
- Development Cost.

GTU Innovation Council

Patent Drafting Exercise (PDE)

FORM 1
THE PATENTS ACT 1970
(39 OF 1970)
&
THE PATENTS RULES, 2003
APPLICATION FOR GRANT OF PATENT

(FOR OFFICE USE ONLY)

Application No:

Filing Date:

Amount of Fee paid:

CBR No: _____

1. Applicant(s) :

ID	Name	Nationality	Address	Mobile No.	Email
1	Dhara Atul Shah	Indian	Computer Science & Engineering , Babaria Institute Of Technology, Varnama , Gujarat Technological University.	9737652720	dharas13@gmail.com
2	Miki Maheshbhai Patel	Indian	Computer Science & Engineering , Babaria Institute Of Technology, Varnama , Gujarat Technological University.	8128403538	miki.3m3@gmail.com
3	Alisha Ram Vyas	Indian	Computer Science & Engineering , Babaria Institute Of Technology, Varnama , Gujarat Technological University.	9638361359	alisharamvyas1993@gmail.com
4	Karan Pareshkumar Patel	Indian	Computer Science & Engineering , Babaria Institute Of Technology, Varnama , Gujarat Technological University.	9727637181	karanpatel.1341@gmail.com

2. Inventor(s):

Note : This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU.
 These documents are not to be submitted with any patent office.

ID	Name	Nationality	Address	Mobile No.	Email
1	Dhara Atul Shah	Indian	Computer Science & Engineering , Babaria Institute Of Technology, Varnama , Gujarat Technological University.	9737652720	dharas13@gmail.com
2	Miki Maheshbhai Patel	Indian	Computer Science & Engineering , Babaria Institute Of Technology, Varnama , Gujarat Technological University.	8128403538	miki.3m3@gmail.com
3	Alisha Ram Vyas	Indian	Computer Science & Engineering , Babaria Institute Of Technology, Varnama , Gujarat Technological University.	9638361359	alisharamvyas1993@gmail.com
4	Karan Pareshkumar Patel	Indian	Computer Science & Engineering , Babaria Institute Of Technology, Varnama , Gujarat Technological University.	9727637181	karanpatel.1341@gmail.com

3. Title of Invention/Project:

Sensor Based Smart Coupon Distribution And Tracking System

4. Address for correspondence of applicant/authorized patent agent in india

Name: Alisha Ram Vyas

Address: Computer Science & Engineering , Babaria Institute Of Technology, Varnama , Gujarat Technological University.

Mobile: 9638361359

Email ID: alisharamvyas1993@gmail.com

5. Priority particulars of the application(S) filed in convention country

Country	Application No.	Filing Date	Name of the Applicant	Title of the Invention
N/A	N/A	N/A	N/A	N/A

International application number	International filing date as allotted by the receiving office
N/A	N/A

7. Particulars for filing divisional application

Original(First) Application Number	Date of filing of Original (first) application
N/A	N/A

8. Particulars for filing patent of addition

Original(First) Application Number	Date of filing of Original (first) application
N/A	N/A

9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We, the above named inventor(s) is/are true & first inventor(s) for this invention and declare that the applicant(s).

herein is/are my/our assignee or legal representative.

Date : 28 - April - 2015

Name	Signature & Date
1 Dhara Atul Shah	_____
2 Miki Maheshbhai Patel	_____
3 Alisha Ram Vyas	_____
4 Karan Pareshkumar Patel	_____

(ii) Declaration by the applicant(s) in the convention country

I/We, the applicant (s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative. applicant(s)

(iii) Declaration by the applicant(s)

I/We, the applicant(s) hereby declare(s) that:-

- ☒ I am/We in possession of the above mentioned invention.
- ☒ The provisional/complete specification relating to the invention is filed with this application.
- ☒ The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- ☒ There is no lawful ground of objection to the grant of the patent to me/us.
- ☒ I am/we are the assignee or the legal representative of true & first inventors.
- ☒ The application or each of the application, particulars of each are given in the para 5 was the first application in the convention country/countries in respect of my/our invention.
- ☒ The application or each of the application, particulars of each are given in the para 5 was the first application in the convention country/countries in respect of my/our invention.
- ☒ I/we claim the priority from the above mentioned applications(s) filed in the convention country/countries & state that no application for protection in respect of invention had been made in a convention country before that date by me/us or by any person
- ☒ My/Our application in india is based on international application under Patent Cooperation Treaty (PCT) as mentioned in para 6
- ☒ The application is divided out of my/our application(s) particulars of which are given in para 7 and pray that this application may be treated as deemed to have been filed on _____ under section 16 of the Act.
- ☒ The said invention is an improvement in or modification of the invention particulars of which are given in para 8.

10. Following are the attachments with the application:

- ☒ (a) Provisional specification/Complete specification
- ☒ (b) Complete specification(In confirmation with the international application) / as amended before international Preliminary Examination Authority (IPEA), as applicable(2 copies), No. of pages.. claims.....
- ☒ (c) Drawings (In confirmation with the international application)/as amended before the international Preliminary Examination Authority(IPEA), as applicable(2 copies), No. of sheets....
- ☒ (d) Priority documents
- ☒ (e) Translations of priority documents/specification/international search reports
- ☒ (f) Statement and undertaking on Form 3
- ☒ (g) Power of Authority
- ☒ (h) Declaration of inventorship on Form 5
- ☒ (i) Sequence listing in electronic Form
- ☒ (j) Fees Rs.XXX in Cash /Cheque/Bank Draft bearing No.XXX Date: XXX o Bank.

I/We hereby declare that to the best of my /our knowledge, information and belief the facts and matters stated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

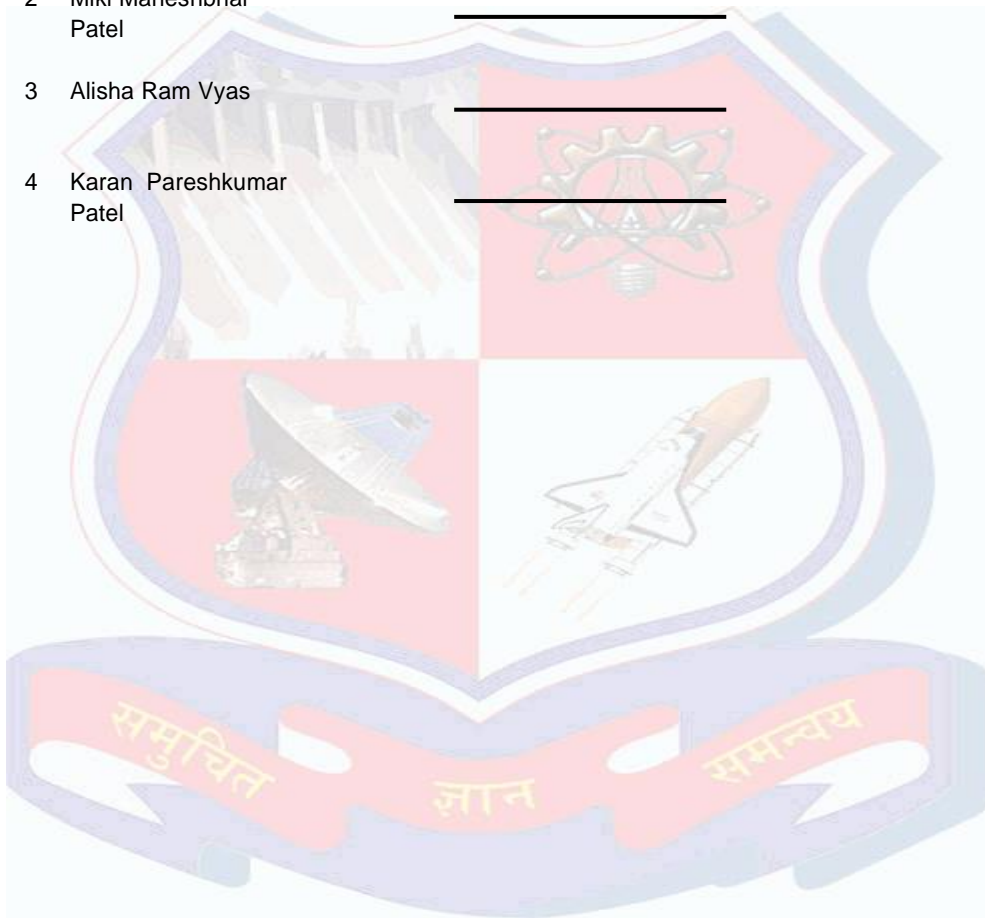
Dated this 28 day of April, 2015

1 Dhara Atul Shah

2 Miki Maheshbhai
Patel

3 Alisha Ram Vyas

4 Karan Pareshkumar
Patel



FORM 2
THE PATENTS ACT, 1970
(39 OF 1970)
&
THE PATENTS RULES, 2003
PROVISIONAL SPECIFICATION

1. Title of the project/invention :

Sensor Based Smart Coupon Distribution And Tracking System

2. Applicant(s) :

Dhara Atul Shah , (Indian)

Address :Computer Science & Engineering ,
Babaria Institute Of Technology, Varnama ,
Gujarat

Miki Maheshbhai Patel , (Indian)

Address :Computer Science & Engineering ,
Babaria Institute Of Technology, Varnama ,
Gujarat

Alisha Ram Vyas , (Indian)

Address :Computer Science & Engineering ,
Babaria Institute Of Technology, Varnama ,
Gujarat

Karan Pareshkumar Patel , (Indian)

Address :Computer Science & Engineering ,
Babaria Institute Of Technology, Varnama ,
Gujarat

3. Preamble to the description :

The following specification describes the invention.

4. Description :**a. Field of Application / Project / Invention :**

E-Commerce

b. Prior Art / Background of the Invention / References :

This project is basically a coupon distribution system involving both web and mobile application. In this system the company will generate campaigns which is basically a set of coupons. Company will give them to affiliates and affiliate will distribute to customers. Customers can redeem these coupons on the franchise.

c. Summary of the Invention/Project :

- Sensor Based Smart Coupon Distribution and Tracking system eliminates the use of paper coupons in the traditional system.
- It also helps the company to keep a track of all the campaigns it has launched, past to present.
- Using the android as well as the web system, the distribution and redemption of coupons becomes easy.
- At any point of time, a company can view the status of its campaign and also compare it with all its past campaigns.

d. Objects of the Invention/Project :

- In this competitive world several companies, in order to increase their sales and for promoting their products, issue several discount coupons.
- These coupons are made of paper and calculation of money, number of coupons distributed is manual and it requires lot of time and patience to manage them.
- Since it is manual there may be mistakes in calculation of money and coupons.
- To overcome these drawbacks we have come up with a service or a platform which can be used by all such companies to distribute their coupons.
- This system shall involve the company which issues coupons, the affiliate to whom the coupons shall be given by the company and finally the customer to whom the coupons shall be sold to.
- The distribution as well as the redemption of the coupon will be through sensors available in the android devices.
- Thus, all the three entities involved need to have respective android applications. This entire system will be web based as well.
- Authentication shall be provided where ever necessary. Atomicity is also one of the features of this system.

e. Drawing(s) :**f. Description of the Invention**

Our system is such that each user of our system either company or affiliate or customer has to register on our portal. Android mobile users may use the android application. After registering each company will generate a campaign and each campaign will contain certain number of coupons. Based on preferences, each company will distribute coupons to affiliates and affiliates will distribute it to customers. The customers after purchasing a coupon can collect from affiliate either using the android application via sensor in android device or through web. Each coupon will carry its own coupon id which shall be unique. These coupons can be redeemed within validation period on the franchise or outlet of the company.

h. Unique Features of the Project

- ☐ Generation of e-coupons
- ☐ Distribution of coupons to the affiliates
- ☐ Distribution of coupons to the customers
- ☐ Transfer of coupons within customers
- ☐ Redemption of coupons
- ☐ Tracking of coupons

5. Date & Signature :

Date : 28 - April - 2015

Sign and Date
Dhara Atul Shah

Sign and Date
Miki Maheshbhai
Patel

Sign and Date
Alisha Ram Vyas

Sign and Date
Karan Pareshkumar
Patel

6. Abstract of the project / invention :

In this competitive world several companies, in order to increase their sales and for promoting their products, issue several discount coupons. These coupons are made of paper and calculation of money, number of coupons distributed is manual and it requires lot of time and patience to manage them. Since it is manual there may be mistakes in calculation of money and coupons.

To overcome these drawbacks we have come up with a service or a platform which can be used by all such companies to distribute their coupons. This system shall involve the company which issues coupons, the affiliate to whom the coupons shall be given by the company and finally the customer to whom the coupons shall be sold to. The distribution as well as the redemption of the coupon will be through sensors available in the android devices. Thus, all the three entities involved need to have respective android applications. This entire system will be web based as well.

Authentication shall be provided where ever necessary. Atomicity is also one of the features of this system.

Drawing Attachments :



FORM 3
THE PATENTS ACT, 1970
(39 OF 1970)
&
THE PATENTS RULES, 2003
STATEMENT AND UNDERTAKING UNDER SECTION 8

1. Declaration :

I/We, Dhara Atul Shah ,
Miki Maheshbhai Patel ,
Alisha Ram Vyas ,
Karan Pareshkumar Patel ,

2. Name, Address and Nationality of the joint Applicant :

Dhara Atul Shah (Indian)
**Address : Computer Science & Engineering ,
Babaria Institute Of Techn**
Technological University.
Miki Maheshbhai Patel (Indian)
**Address : Computer Science & Engineering ,
Babaria Institute Of Techn**
Technological University.
Alisha Ram Vyas (Indian)
**Address : Computer Science & Engineering ,
Babaria Institute Of Techn**
Technological University.
Karan Pareshkumar Patel (Indian)
**Address : Computer Science & Engineering ,
Babaria Institute Of Techn**
Technological University.

Here by declare:

- (i) that I/We have not made any application for the same/substantially the same invention outside India.
(ii) that the right in the application(s) has/have been assigned to,

<i>Name of the Country</i>	<i>Date of Application</i>	<i>Application Number</i>	<i>Status of the Application</i>	<i>Date of Publication</i>	<i>Date of Grant</i>
N/A	N/A	N/A	N/A	N/A	N/A

- (iii) that I/We undertake that up to the date of grant of patent by the Controller , I/We would keep him inform in writing the details regarding corresponding application(s) for patents filed outside India within 3 months from the date of filing of such application.

Dated this 28 day of April , 2015.

3. Signature of Applicants :

Sign and Date
Dhara Atul Shah

Sign and Date
Miki Maheshbhai Patel

Sign and Date
Alisha Ram Vyas

Sign and Date
Karan Pareshkumar
Patel

To
The Controller of Patent
The Patent Office, at **Mumbai**.

