



**North South University**

Department of Electrical & Computer Engineering

**Project Proposal**

Group No: 05

**Fall 2020**

**Project Name: Coupon Finder**

Course No: CSE 299 Sec: 02

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## INTRODUCTION

We all want to find the best deals online. Coupon finder is a trusted online platform and is leading the way to discover, compare, and leverage the best discount deals, exclusive discount offers, and fascinating daily deals. Our aim is to provide massive discounts across a broad range of products, services, and activities.

Coupon finder brings an opportunity to save money on online shopping at your favorite online store. It is, therefore, essential to understanding the way in which to use these coupon codes to save substantial amounts of money.

## FEATURES

- Anyone on the website can find the available coupon codes, offers & deals.
- Visitors can search by shop or restaurant name to find available coupons.
- Category based on shop types such as fashion, food, gadgets, etc.
- Shop details will be displayed with reviews from the users.
- Trending Deal Section – latest voucher codes & deals will be shown here.
- Auto-suggestion assistant – this enables fast search results of shops or restaurants.
- Sign up option- Registered users will receive free email notifications about the top offers.
- Sign up & login option based on email , instagram & facebook.
- Admin Panel – the admins will have full control over the whole system adding/updating shop names and/or updating other information

## BUSINESS IMPACT

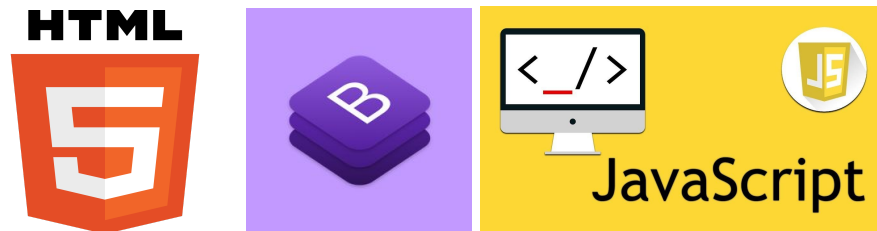
- At the growing edge of online shopping, customers will be more likely to buy their necessary stuff online as discounts are available in an organized manner. It will save their hard-earned money.
- Affiliated online shops will get information about what their customers are looking for with more discounts.
- Online shops can advertise their hot deals and get more customers.
- A cost-effective way to promote a brand, and its products while not spending huge sums without results.

## TECHNOLOGY

We decided to go with the latest technologies for developing this application in order to give users a better experience.

### *Frontend*

For the frontend, we will be using HTML, CSS, JavaScript, and Bootstrap. Bootstrap's responsive CSS adjusts to phones, tablets, and desktops. It also gives a more premium user interface and smoother experience.



### *Backend & Database*

Python's web framework - Django will be used as the website's backend. Django ensures rapid development providing high security and maintenance. Django takes care of much of the hassle of web development, so we can focus on writing our code without needing to reinvent the wheel. We will be using MySQL as the database. MySQL offers advanced features and reliability far beyond a typical freeware project.



### *Additional Technologies*

Django-allauth will be used to allow users to login using their Facebook, Instagram, or Google account.

A database of online shops and their details & latest discounts will be stored in an excel file. Python pandas will be used to read those data using read\_excel & integrate with MySQL.

## **Frontend plan**

A total of 6 page-templates in plan (as of November 14, 2020)

1. Homepage
2. Sign up page
3. Login page
4. Admin dashboard
5. Category Based Search Page
6. View Discount Coupon Page with shop details

## **Backend Development**

1. Account Creating, Password Recover:
  - a. Sign up form
  - b. Login
  - c. Facebook login
  - d. Google login
  - e. Forgot Password
  - f. MySQL Database
2. Searching Facility:
  - a. Category based
  - b. Shop based
3. Dashboard:
  - a. Admin dashboard

## **MONETIZATION**

- CPC- Cost per click will be added to the advertisements.
- The percentage of selling will be taken from online shops as per the use of coupons.
- Online shops will have to pay if they want to promote their hot deals or trending products.
- The percentage and cost will be calculated based on website traffic.

## Development Plan (Tentative)

The development methodology will adopt the agile methodology. And the schedule of the Coupon finder website is given below.

### Phase 1

**Duration time** - ( 2.11.2020 - 14.11.2020 )

**Deliverables:** A proposal for the website will be delivered.

### Phase 2

**Duration time** - ( 14.11.2020 - 23.11.2020 )

**Deliverables:** Accessible login/sign up, logout page, homepage, admin dashboard, category page will be designed. HTML, CSS, JavaScript, Bootstrap will be used for the front end.

### Phase 3

**Duration time** - ( 24.11.2020 - 07.12.2020 )

**Deliverables:** In this duration, the interaction of Django and Database will be established.

### Phase 4

**Duration time** - ( 08.12.2020 - 21.12.2020 )

**Deliverables:** Hosting and necessary search options will be implemented.

### Phase 5

**Duration time** - (22.12.2020 - 04. 01. 2021)

**Deliverables:** Bug fixing will be continued & final release.

## Appendix

### Contact information

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