



# PROJECT CHARTER

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## GOALS (What you have been asked to do or what you're trying to achieve)

Our good goal is:

- To build an ecommerce site with fully functional integration of payment gateway & live chat facility to users before the end of the semester!

Our main goal is SMART!

### Specific:

1. What do we want to accomplish?  
We want a working ecommerce site. Its front end should be developed in HTML, CSS, Bootstrap. Back-end should be in JavaScript, Python, and Flask. We want to implement payment gateways. We also want that our customers can chat with sellers via WhatsApp API.
2. Why is this a goal?
  - This is a goal because we want to practice our skills while building this project!
  - This is a goal because it is the part of our course Web Engineering.
3. Does it have a specific reason, purpose, or benefit?  
YES. We will learn how to integrate APIs on sites, how to build User Interface, how to improve User Experience (UX), how to link with databases for big amount of data, how to write functions in JavaScript and use framework (Flask) of Python. This will also benefit us in terms of Project Management, Requirements Engineering, Research Analysis, Decision Making, Team Working, Time Management, Logo Designing, UI/UX designing, Backend development, Responsive Web Design Development.  
  
All these skills will help us to become a Web Developer or at-least a Middle Tier Developer!
4. Who is involved?  
Team MIB, Course Instructor Ms. Sanam Ahmad, TAs and People of Pakistan.



Why People of Pakistan? Because our system is being built for them. So, we need to consider their requirements, preferences and needs!

5. Who is the recipient?

Course Instructor: Miss Sanam Ahmad

Public at Large (May be)

6. What are the requirements and constraints?

All requirements will be clearly written in the SRS Doc.

Constraints:

- 1) This project should be completed with no or minimum cost. (Cost Constraint)
- 2) This project should be completed within coming 5 weeks. (Time Constraint)

### **Measurable:**

Our project's success is measurable as we can see how much number of requirements we have implemented. How much work we have done on our project.

### **Progress Metrics:**

1. How many numbers of ideas, concepts you have bring to the team for the project's success! (5points)
2. How much number of hours you have constructively worked on the project. (1 hour = 1point)
3. Are you doing your assigned work, in time? (5points)
4. Writing something other than code for the project. (5points)

**Note:** There will be a worthy price based on these points after the end of successful closing of the project.

### **Benchmark/ Point of Reference:**

Team MIB has achieved admirable results with good documentation in the past. Good documentation is very necessary for the team. So that, everything we do in the project, we can concertize it. To avoid un-necessary changes afterwards. This is to save time and maintain clarity for all. As we cannot remember things that are not written or recorded. (Not writing requirements or final decisions in official documents is not a professionalism).

**Attainable:**

Our goal is achievable. If we all do our best. We need to clarify our requirements as soon as possible. Then divide them among team according to everyone's interests and desires.

**Relevant:**

This is relevant to our interests, field of expertise, desires, and our aim to become good Web Developers.

**Time-Bound:**

Our project is time-bound, as we have to submit it before the end of the semester.

**SCOPE (Defining the Boundary of the Project):****Project Name: BazaarTour**

BazaarTour will be an e-commerce company of Pakistan that provides home to all kinds of startups, businesses & entrepreneurs, an easy to sell opportunities, no matter who they are or where they are from, while ensuring their safety & privacy.

For ensuring safety and privacy, we'll be using defensive programming techniques from OWASP's Secure Coding Guidelines. The document will be attached with it at the end!

**We respect your privacy and acknowledge your growth!**

A world with endless possibilities. Imagine a place that has everything you could possibly ever want or need. In shapes, sizes, and colors that you've never seen before. A place that inspires you with all that is new and interesting. Welcome to our world!



## STAKEHOLDERS

1. Ma'am Sanam Ahmad
2. Abdul Wahab
3. Laiba Tariq
4. Muhammad Abdullah
5. Ramsha Farrukh
6. Sajeel Masih
7. Muhammad Muzammil
8. Anas TA
9. Awais Bharwana TA
10. TA Miss Wajeeha

We can also use Google Forms to get opinion of other people about the project. We can also chat with our family members and friends to know what kind of problems they see in existing ecommerce systems especially with Daraz.pk and OLX. We can go with this. We will surely be able to get some unique ideas to make it more impactful during presentation and viva. We can also refer that our research results are based on genuine people's opinions.

## PROJECT DELIVERABLES

Will be defined soon!

First project Deliverable will be the complete responsive prototype of the Project:

(Deadline: tomorrow before 12am!)

Why we need it?

1. To see how our success will look like from front-end view.
2. It'll also finalize our Coloring scheme, UI/UX, and front-end requirements.
3. It will also concretize what to build with HTML, CSS and Bootstrap!

Second Deliverable will be to complete Front-end coding according to our Prototypes!

(Deadline: TBD)

After completing 2D: We will have a complete flow of input data. We will have no problems to go for back-end!!!



Third Deliverable will be to design DB Schemas.

(Deadline: TBD)

What will include in DB Schemas:

1. DFD Level 0 (Context Diagram)
2. DFD Level 1 (Exploded view of the Context Diagram)
3. DFD Level 2
4. Crow's Foot ERD

Forth Deliverable will be to code DB Schemas on SQL-Lite using back-end languages.

(Deadline: TBD)

Fifth Deliverable will be to integrate IBM WATSON ASSISTANT, WhatsApp API.

(Deadline: TBD)

Sixth Deliverable will be to Close a Project and Team Gathering with their Prices!

(Deadline: TBD)

## SUCCESS CRITERIA

1. It's completely understood by all team members.
2. It's fully implemented and integrated.
3. It's uploaded in GitHub: [https://github.com/MIBTEAM/BAZAAR\\_TOUR](https://github.com/MIBTEAM/BAZAAR_TOUR)
4. All queries are resolved and considered complete by all.
5. The final, all stakeholders are satisfied or inspired with project outcomes!

## RESOURCES

Our learning resources:

1. YouTube
2. Google
3. Internet
4. IBM cognitive class
5. freeCodeCamp.org
6. More can be added here (...)



Our Working resources:

1. Abdul Wahab
2. Muhammad Abdullah
3. Laiba Tariq
4. Ramsha Farrukh
5. Muhammad Muzammil
6. Sajeel Masih

Our Time Resources:

` 4 weeks. Excluding weekends and lab days.

Our Previous Knowledge and skills.



## OWASP Defensive Programming Requirements

1. CAPTCHA input validation
2. Password validation:
  - a. Minimum 8 chars (1 symbol, 1 number, 1 capital letter)
  - b. Disable attempts after 3 failed logins.
  - c. Storing password in cryptographic version
3. Multi-factor Authentication
4. Limit number of Purchase each user can place over a specified timeframe. (Airlift Express Startup-Case Study)
5. How we will communicate securely with our sellers and buyers?
  - a. Sessions
  - b. Cookies
  - c. SSL (Secure Socket Layer) Certificate (Budget)
6. http response header should include only relevant information
7. Keep test and development environments separate from production environment.
8. Remove autocomplete from areas of web-site/app where sensitive data is entered.
9. Prevent server-side code from accidentally accessed by users.
10. Output encoding translates user-inputted data to ensure it doesn't execute as a code in a browser or program. (To avoid cross-site scripting)
11. Raising appropriate exceptions.
12. Ensure error logs are beautifully maintained with adequate data. Keep sensitive information out of data logs. (A table in DB)
13. Secure Code Review (via automatic web security review tools)





## Social Media Links:

1. Gmail:

[bazaarTourr@gmail.com](mailto:bazaarTourr@gmail.com)

Password: Tour1721

➔ Image resolution size recommended: **720 px tall, 720 px wide**. For GMAIL Profile Photo

2. YouTube channel

<https://www.youtube.com/channel/UCy93dA2dxNeRhFFEmZ9yONQ>

YouTube Handle: @bazaartour

➔ *For the best results on all devices, use an image that's at least 2048 x 1152 pixels and 6MB or less*

3. Facebook

<https://www.facebook.com/profile.php?id=100089056053669&mibextid=ZbWKwL>