

UNIVERSITY OF SCIENCE  
ITEC

# Project Management

## Feasibility – Group D



Bộ môn Công nghệ phần mềm  
Khoa Công nghệ thông tin  
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## A. Legal feasibility

Ensures that the site will not authorize and distribute documents that are illegal or breach political and social ethics.

Customers/users that use our services have their information secured. These data will not be used for inappropriate reasons such as selling, distributing or publishing.

## B. Technology and system feasibility

The project meets the technological feasibility. The developers have experience in developing similar applications before.

- The Presentation layers:
  - Design in minimalism, modern web applications
  - Use ReactJs to develop the application, easy for expanding features
  - Easy to deploy and maintain in a low-cost hosting
- The Business layers:
  - Encrypted confidential customer information
  - Setup the business login supporting the booking services
  - Use PHP for easy development
- The Database layers:
  - Use MySQL database server to store data and information
- Deployment services:
  - Use Hostinger to deploy the whole project
  - Fast and popular hosting
  - Cheap and easy to maintain
  - Support CI/CD and advantage features

## C. Economic feasibility

Because there are not many online hair salon booking services nowadays, our application should appeal to customers in the same way that other existing businesses do.

The amount of clients we obtain with online booking should outperform traditional booking (face-to-face), which entails standing in line. As a result, our approach should be financially viable in terms of future income and profit.

## D. Operational feasibility

The operational procedure of our application is about the booking of haircut services from our Barberino store. Customers can use our Barberino website to set a date for the haircut services, and after that, customers can show up at our store and tell us the phone number or email address that you set up the schedule for. Following that, our barber shop will perform the services that you have reserved.

The operational procedure is straightforward and simple to follow. If you have any concerns, please contact us via the email or phone number listed in our contact information.

## E. Schedule feasibility

The Barberino project has a duration of 10 weeks using SCRUM agile development framework. Each sprint is 2 weeks:

- Sprint 1: Business and Requirement Analysis, Documentation
- Sprint 2: Database design, UI design, System infrastructure
- Sprint 3: Implementation (Coding, Unit testing, Deployment)
- Sprint 4: Maintenance, monitoring and final testing processes
- Sprint 5: Application introduction and demonstration

This timeline is transparent to all stakeholders in the project from the initialization phase. Therefore, the Barberino Project is scheduly feasible.

## F. Market feasibility

There are various competitors in the market right now. Each opponent has their own set of advantages and disadvantages.

|           | Advantages  | Disadvantages   |
|-----------|---|---|
| 30Shine   | <ul style="list-style-type: none"><li>- Modern design</li><li>- Booking appointment with flexible time</li></ul>  | <ul style="list-style-type: none"><li>- Need login to create the appointment</li><li>- Do not estimated service's time</li><li>- Do not remove the next time slot if the previous slot overlay that time.</li></ul>                             |
| iSalon    | <ul style="list-style-type: none"><li>- Connect customer with salon</li><li>- Search for special services with their place</li><li>- Online hair service consultant</li></ul>   | <ul style="list-style-type: none"><li>- Need login to create the appointment</li><li>- Do not estimated service's time</li><li>- Do not have time slot, just date booking</li><li>- Not UI friendly, too hard to book the appointment</li></ul> |
| Barberino | <ul style="list-style-type: none"><li>- Can book specific stylist of your choice</li><li>- The booked stylist will be locked out until he/she is done with your services</li><li>- No need to be registered to book, only your phone number and name is required</li><li>- Modern UI/UX</li></ul> | <ul style="list-style-type: none"><li>- New to the market</li><li>- Lack of customer service for the time being</li></ul>   |

## G. Resource feasibility

### Human Resources:

Project Manager: 1200\$/ month

Database Administrator: 1000\$/ month

Developer: 750\$/ month

- Working hour: 40 hours weekly
- Total time: 10 weeks – 2.5 months
- Total budget:  $(1200 + 1000 + 750) * 2.5 = 7930\$$ .

### Other Budgets:

- Domain: 20\$/ year
- Hosting: 50\$/ year
- Marketing & Operation: 500\$
- Emergency budgets: 1000\$
- Total estimated budget: -10000\$

→ It is totally reasonable to afford this budget for this size of project

## H. Cultural Feasibility

As society evolves, so does each individual's work, resulting in a reduction in many people's time budget. Therefore, they prefer to schedule haircuts to save time and avoid waiting in line.

The booking appointment's release is to meet the following demands:

- For those who are limited in time, the time budget is not fixed.
- Control their time schedule on monthly services
- Social-distancing on pandemic, limit customers in Hair Salon