



**An Undergraduate Internship/Project on Software requirement specification (SRS) of the Assessment module for BRAC Skill Development Program(SDP) Online Career Hub.**

By

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**Summer, 2021**

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**September 10, 2021**

Dissertation submitted in partial fulfillment for the degree of Bachelor of  
Science in Computer Science

**Department of Computer Science & Engineering**  
**Independent University, Bangladesh**

# **Attestation**

I understand the nature of plagiarism, and I am aware of the University's policy on this. I certify that this report is my own work, based on my personal work by me during my internship. And that I have acknowledged all material and sources used in this report.

I also certify that this report has not previously been submitted for assessment in any other unit and that I have not plagiarized the work of other students or persons. However, following the internationally accepted academic guideline of using others' written work and/or software (in the form of code) in my university project is properly cited if used in any part of this work.

Signature:  
Afifa Aman Ana  
Name: -----

# Acknowledgements

I would like to begin by addressing the fact that I feel blessed as I have successfully reached the end of Graduation and my final semester at IUB. That is the reason why I am exceptionally thankful to my Almighty. From the beginning of my university life, I was introduced to high level languages such as C++ and from then on it was in-depth computer science related knowledge that I acquired from my courses' teachers. I would like to express my gratitude to the Faculty of Computer Science and Engineering department to keep internship credit in the curriculum of the graduation program and give me a scope of field work in Project Management.

During my internship, I was lucky enough to get a ton of support from a number of people to whom I owe a debt of gratitude. Surely, I am utterly grateful to my supervisor Mr. Mohammad Noor Nabi (SIR) Senior Lecturer, Department of Computer Science and Engineering, Independent University, Bangladesh (IUB). I would not have been able to complete this report without his invaluable guidance and direction. His advice, support, and suggestions aided me in completing this report in a timely manner.

I would also like to express my utmost gratitude to BRAC for providing me the opportunity to complete my internship from their Technology Department. Then I would love to express my respect and pay gratitude to my external supervisor, MR. Sarker Mahatab Masud, project manager, technology division(BRAC). He deserves special recognition for his helpful instructions, continuous direction, support, and motivation during my internship and report preparation. Without his kind direction and proper guidance it would be impossible to complete my internship project. It was a great pleasure for me that I completed my internship under his observation.

# **Letter of Transmittal**

10th September 2021

Mr Mohammad Noor Nabi  
Senior Lecturer,  
Department of Computer Science and Engineering  
Independent University, Bangladesh  
Subject: Submission of Internship Report

Honorable Sir,

This is to inform you with due honor and respect that I am Afifa Aman Ana (ID: 1630749) from the Internship Course of Summer 2021 in section 1, I would like to submit my internship report on Software requirement specification (SRS) of the Assessment module for BRAC Online Career Hub.

I would like to express my gratitude to you and thank you for allowing me to work on this topic under your proper supervision. This report has been prepared with the utmost attention and concentration. I have done my best to give material that is both valid and trustworthy, in order to make the findings as accurate as possible. Due to a variety of constraints, there may be some mistakes, which I respectfully request for your kind consideration.

I would be highly grateful if you are kind enough to receive this report and provide your valuable judgment. Also, I will be happy to answer any kind of inquiry identified with this report, if vital.

Sincerely yours,  
Afifa Aman Ana  
ID : 1630749  
Department of Computer Science,  
School of Engineering & Computer Science,  
Independent University, Bangladesh

# Evaluation Committee

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Signature

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Name

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External Examiner

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Convener

# **Abstract**

This report is based on the project I am working on for my internship and the contribution of mine that I gave in this project. The name of the project in my report is an online career hub for SDP. So basically this project is about to address the rising unemployment rate amongst the youth in Bangladesh and SDP wants to propose the development of a web and mobile platform that will serve as a medium for the learners to gain employability skills online to ultimately get employment. We can say that the mission of this project is empowering youths through skills development and decent employment so that a component workforce can lead our nation forward. The end goal of the platform is to provide its learners necessary skills to get job opportunity / entrepreneurship support within the platform. For this reason, the platform will have features such as career counselling, skill training and job posting capability. This platform will also take job postings from the employers but instead of a simple job description, employers will have to define the kind of skills that they need for this particular job which in turn will help the platform to assess job demand in the market. This platform will include four unique core functions, as well as advanced learner tracking backend feathers. The core features are known as (1) Training Hub (2) Learners' readiness to job (3) Job engine and (4) Career counseling. The additional feature will be learner tracking. Specifically we will talk about the Assessment module (Learners' Readiness for Jobs) in this Report. The purpose of this module is to assess whether the learners' skills level are up to the mark to pursue certain job opportunities. When the learner enters the platform, he/she will be asked to enter his desired profession. Upon giving that input he will be offered a skills assessment test. The test questions will be sorted and developed by a dedicated pool of researchers. If the learner earns the qualifying marks then he will be given suggestions of available jobs sorted by the job engine. And if he fails then he will be directed to the Training hub with the suggestion of particular skills training. The process will continue unless the learner secures the qualifying marks. The other points of this application will also be discussed in this report.

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# **CHAPTER 1(Introduction)**

## **1.1 Background of the work**

The BRAC skills development program (SDP) began in 2015 with the goal of transforming our country's human capital into skilled workers. Its mission is to empower youths through skill development and decent employment so that our nation can be led forward by a competent workforce. The program's outcomes are aligned to the SDG (sustainable development goal) 4.4 (ensuring skills for youth and adults for decent employment and entrepreneurship) and SDG 8 (promoting sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all).

The COVID-19 pandemic's rapid arrival has reduced the range of physical training. The educational institutions have been remained closed since 17 March 2021 as per given the government's embargoes. On the other hand, nearly 25 million of the global population are anticipated to lose their jobs due to the COVID-19 crisis according to the recent report of the International Labour Organization (ILO)<sup>2</sup>. In Bangladesh, there has been a dramatic increase in the unemployment rate. Restriction in the new recruitment, sudden job loss and so on are the reason for this sharp increase in youth unemployment. Given these circumstances, skills training through digital platforms is imperative. Employees will require additional competences such as strong communication skills to acquire positions in this new-normal job market as the labor market shrinks.

## 1.2 Objectives

The COVID 19 outbreak has had an unexpected impact on human life in this period of science and technological growth. It has had a negative impact on the economy and business activities. BRAC as an esteemed people-oriented development organization has taken the decision to extend their support to this population in the pandemic situation. Approaching technology which would be beneficial to the ends of job seekers, job providers and mentors / trainers.

The proposed solution by STL will be wrapped with some essential features and functionalities through automation, and tracking.

The objectives of this project depicts the following points:

- I. Complete process analysis to identify any existing difficulties or prospective barriers.
- II. An in-depth examination of existing processes and possible risks in terms of the time required to finish the process.
- III. Full investigation of the current scope's timings and volumes.
- IV. Produce short- and long-term improvement recommendations to be reviewed and agreed upon with interested stakeholders.
- V. To drive recommendations through implementation, with assistance from the business.

## **1.3 Scopes**

The purpose of this module is to assess whether the learners' skills level are up to the mark to pursue certain job opportunities. When the learner enters the platform, he/she will be asked to enter his desired profession. Upon giving that input he will be offered a skills assessment test. The test questions will be sorted and developed by a dedicated pool of researchers. If the learner earns the qualifying marks then he will be given suggestions of available jobs sorted by the job engine. And if he fails then he will be directed to the Training hub with the suggestion of particular skills training. The process will continue unless the learner secures the qualifying marks. In this assessment module there will be ability of trainers to upload/ modify assessment questions. There will be Psychometric assessment test for learners also. Then participants will get improvement plans created by trainers if they find themselves weak in assessment's performance. Then in this assessment module there will be some improvement plans which one will be set by Admin. In assessment module the learners will appear at psychometric tests against fixed sets of questions and will be scored based on their performances and tests' results. The tests will be categorized into three distinguished categories such as beginner, intermediate and advanced. Each of these categories will enable three different levels of people to judge their current skills. Such as beginner test for novice/early career professionals, intermediate test for mid-career professionals and advanced level test for professionals who have walked a long way in their career. These individual scores will be stored in the learners' personal database against their account. Then there will be a dashboard for displaying of the assessment result where will be visible the test results of the learners which will be stored under a separate section in the dashboard. From there the trainer, field facilitators and relevant administrators will be able to check learners' progresses.

## **Chapter 2 (Literature Review)**

## **2.1 Relationship with Undergraduate studies**

This project is related to my undergraduate studies as I am from the Computer Science and Engineering Department. I have learned a lot of things in my undergraduate studies which help me to do this Internship project. The Department of Computer Science and Engineering at Independent University in Bangladesh coordinated the courses and schedule in an exceptionally productive manner, which helped me in finishing my project successfully. University classes gave information and abilities that supported the advancement of the "BRAC Online Career Hub" project. On the off chance that the courses had not been finished before to chip away at this venture, it would have been seriously difficult.

A portion of the straightforwardly related courses are:

### **Software Project Management:**

This Software project management course helped me a lot for doing my internship project. In this project management course I learn about Project tracking and scheduling, Risk management and analysis, Cost estimation model., Project metrics and Function Point Estimation.The course provides an in depth examination of project management principles and modern software project management practices. In this course Portfolio management and the use and application of software project management tools are also discussed. So overall this project management course was a very helpful course for me

### **System Analysis and Design:**

This course examines the tools and techniques used to design and analyze information systems. In this course I have learned topics like project management, system and models, and was introduced with the tools for determining system requirements and designing the data-flow diagrams and use case modeling and front-end and back-ends, as "BRAC online career hub" required me to do the front-end and SRS designing so this course helped me to do so.

## Data Structure:

The representation and storage of data in elementary data structures such as arrays, classes and object type topics are covered in this course. Since "BRAC Online Career Hub" contains various complex information structures, the abilities taught in this course are very valuable and it was significantly simpler to manage them also.

## Web Application and Internet:

After completing this course, I had the knowledge of HTML, CSS, JavaScript, jQuery which helped me to write the codes in the project "BRAC online career hub" as the project is a web application, so it had the involvement of the languages I have learned from this course, so it helped me to implement that knowledge in the project. This course provides a complete overview of web technologies and how to use them.

## 2.2 Related Works

The BRAC skills development program (SDP) started in 2015 as an initiative to transform the human capital of our country into skilled workers. This is the platform where students can learn, know about their skill ability, can see the job vacancy and after their skill test they also can find a suitable job for them also. The specific work that helps the platform determine the market vacancy demand. Through this "Online Career Hub" project SDP wants to propose the development of a web and mobile platform that will serve as a medium for the learners to gain employability skills online to ultimately get employment. Through this platform students can find job vacancies and can get job opportunities and companies can also find the type of talent or employee they need.

Given below here are some examples of Project which matches my Project:

1. [Careerjet](#)
2. [Bdjobstoday](#)
3. [Bdjobs](#)
4. [BdjobsCaree](#)
5. [LinkedInJobs](#)
6. [Bdgovtjob](#)

# **Chapter 3 (Project Management and Financing)**

## 3.1 Gantt Chart

This is the Gantt Chart of Assessment Module. On “Online Career Hub” project Assessment module is Phase 2. On this Gantt Chart here we have a full time schedule of the Assessment Module. Here the duration of completing phase 2 is 60 days. Among these days there for Requirements and prototyping 25 days are given. Requirements and prototyping are divided into 8 parts. The duration of completing Req. Elicitation and system analysis is 3 days then for the Activity diagram on Req. Understanding time is 4 days, for XD prototype development time is 6 days, for Approval of prototype and creation of backlog time is 3 days, for Approval on backlog time is 2 days, for SRS development bounded time is 5 days, then for Approval on SRS bounded time is 1 day. Now for completing the Development part, the allocated time is 32 days. This development part is divided into 4 Sprint and for completing each Sprint bounded time is 8 days. Now for the closing part of phase 2 the allocated time is 2 days. After that for completing overall observation and Bug fixing, phase 2 user manual/tutorials and FAC signoff from SDP and BRAC Technology bounded time is 1 day. So is the overall time schedule of the Assessment Module.

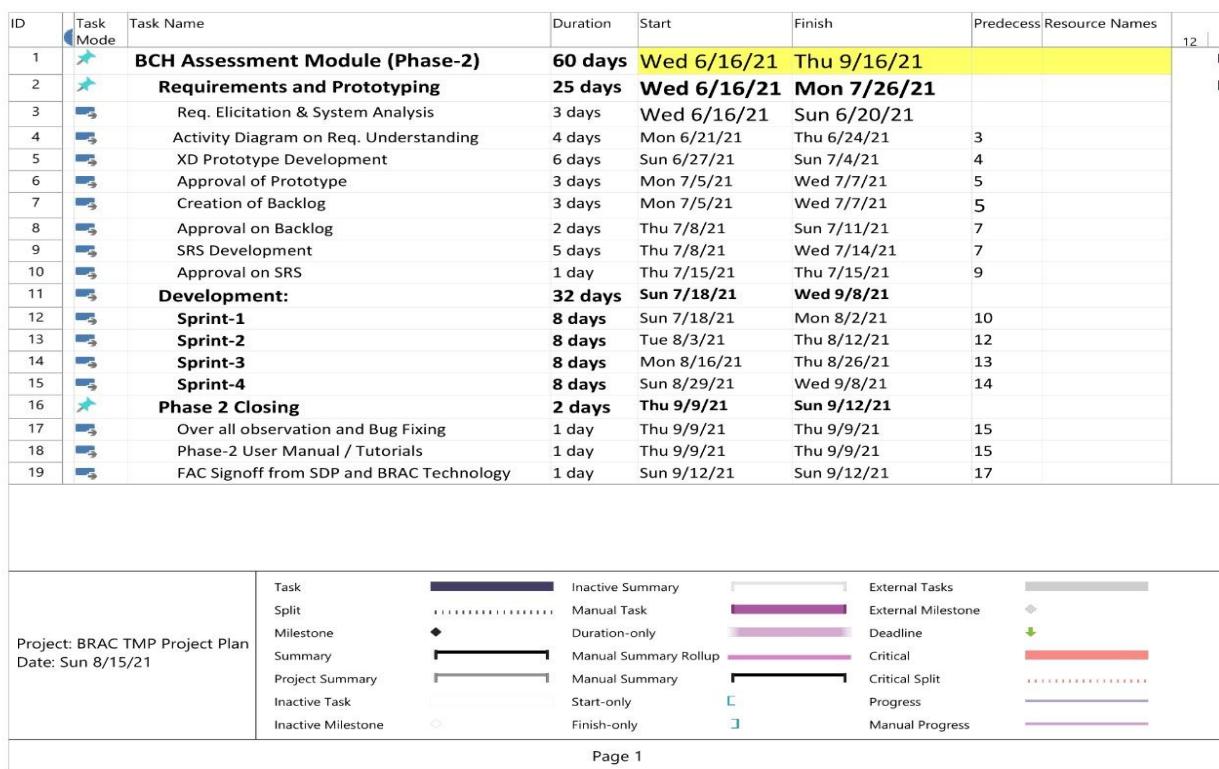


Figure:3.1 Gantt Chart of the Assessment Module

## 3.2 Work Breakdown Structure

A work Breakdown structure is a guideline and a visual overview of the project. Basically we use Work breakdown structure for managing our work properly on time. By using WBS we can create tasks by breaking down the deliverables and these can again be broken down into subtasks as many times as needed to reach the goal of the project. Here for fulfilling the work of the Assessment Module we divide our work in 5 main parts. First part is the Project management part here again we divide our project management part in 5 sub categories. Second part is the Requirement document. Again here we divide requirement documents into 4 sub categories. Like this our project's third and fourth part is Analysis and prototyping part and Software development part we also divide them in 4 sub categories. And the last part is Testing and Development. Here also we divide this part into 7 sub categories. Each WBS item is documented to ensure accurate understanding of the scope of work included and not included in that item. The WBS was made as a flexible tool to accommodate inevitable changes while properly maintaining control of the work content in the project.

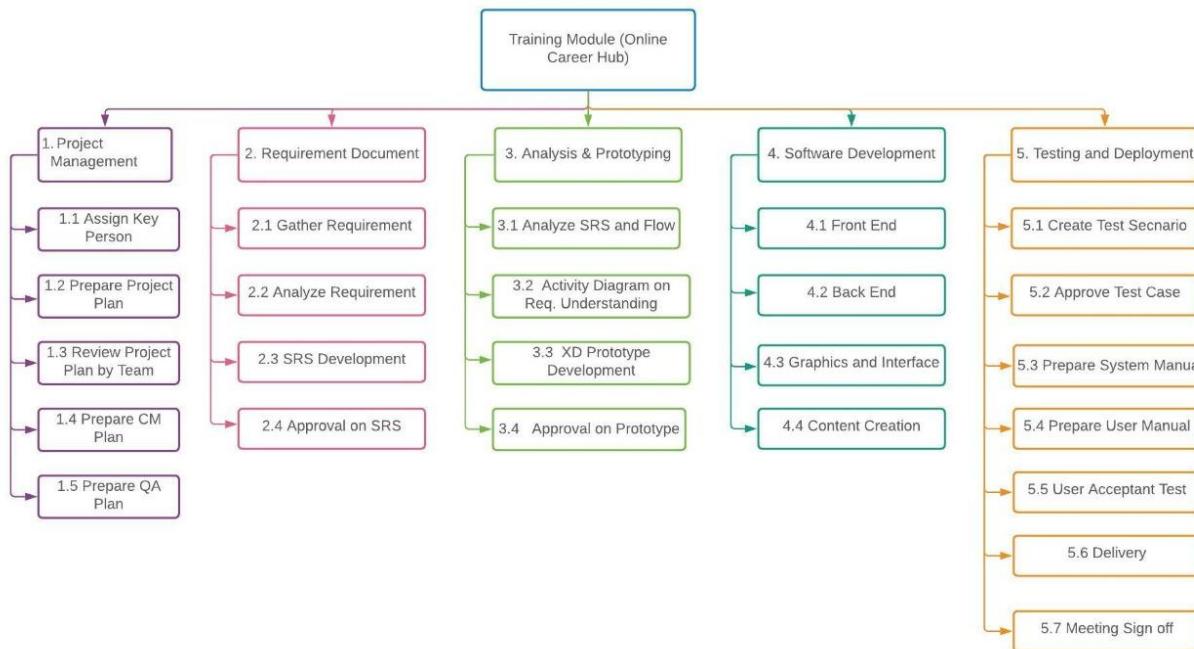


Figure: 3.2 Work Breakdown Structure

### 3.3 Process/ Activity Wise Time Distribution

The estimated time required to end a project successfully defines process wise time distribution. This helps the developers create a mind map as to how efficiently they need to work in order to meet the deadlines. Time distribution is greatly needed to complete any project. Increased effectiveness and productivity are the result of proper time management. It is an important part of project management that requires abilities such as planning, goal-setting, and prioritizing in order to get better results. The key to good time management is not to work more, but to work more efficiently. Here in this figure, Percentage (%) determines the time percentage which needed to complete this project.

| Task Name                                | Duration  | Percentage   |
|--|-----------|--------------|
| <b>BCH Assessment MModule (Phase-02)</b> | <b>60</b> | <b>100</b>   |
| <b>Requirements and Prototyping</b>      | <b>25</b> | <b>15%</b>   |
| Req. Elicitation and System Analysis     | 3         | 1.8%         |
| Activity Diagram on Req. Understanding   | 4         | 2.4%         |
| XD Prototype Development                 | 6         | 3.6%         |
| Approval of Prototype                    | 3         | 1.8%         |
| Creation of Backlog                      | 3         | 1.8%         |
| Approval on Backlog                      | 2         | 1.2%         |
| SRS Development                          | 5         | 3%           |
| Approval on SRS                          | 1         | 0.6%         |
| <b>Development</b>                       | <b>32</b> | <b>19.2%</b> |
| <b>Sprint-1</b>                          | <b>8</b>  | <b>4.8%</b>  |
| <b>Sprint-2</b>                          | <b>8</b>  | <b>4.8%</b>  |
| <b>Sprint-3</b>                          | <b>8</b>  | <b>4.8%</b>  |
| <b>Sprint-4</b>                          | <b>8</b>  | <b>4.8%</b>  |
| <b>Phase 2 Closing</b>                   | <b>2</b>  | <b>1.2%</b>  |
| Overall observation and Bug Fixing       | 1         | 0.6%         |
| Phase-2 User Manual / Tutorials          | 1         | 0.6%         |
| FAC Signoff from SDP and BRAC Technology | 1         | 0.6%         |

Figure: 3.3 Process/ Activity Wise Time Distribution

The critical path is the longest series of actions that must be done from project start to end in order for the project to be completed on time. On the critical path, activities must be closely monitored. Take immediate steps to get the project back on track if jobs on the critical path fall behind schedule. Otherwise, the entire project could be delayed. A critical path is a series of interconnected activities or tasks that must all be finished before the project can be completed. One of the most significant benefits of the critical path method is that it allows for changes during the project's planning process.

The critical paths are shown in blue in this graph.

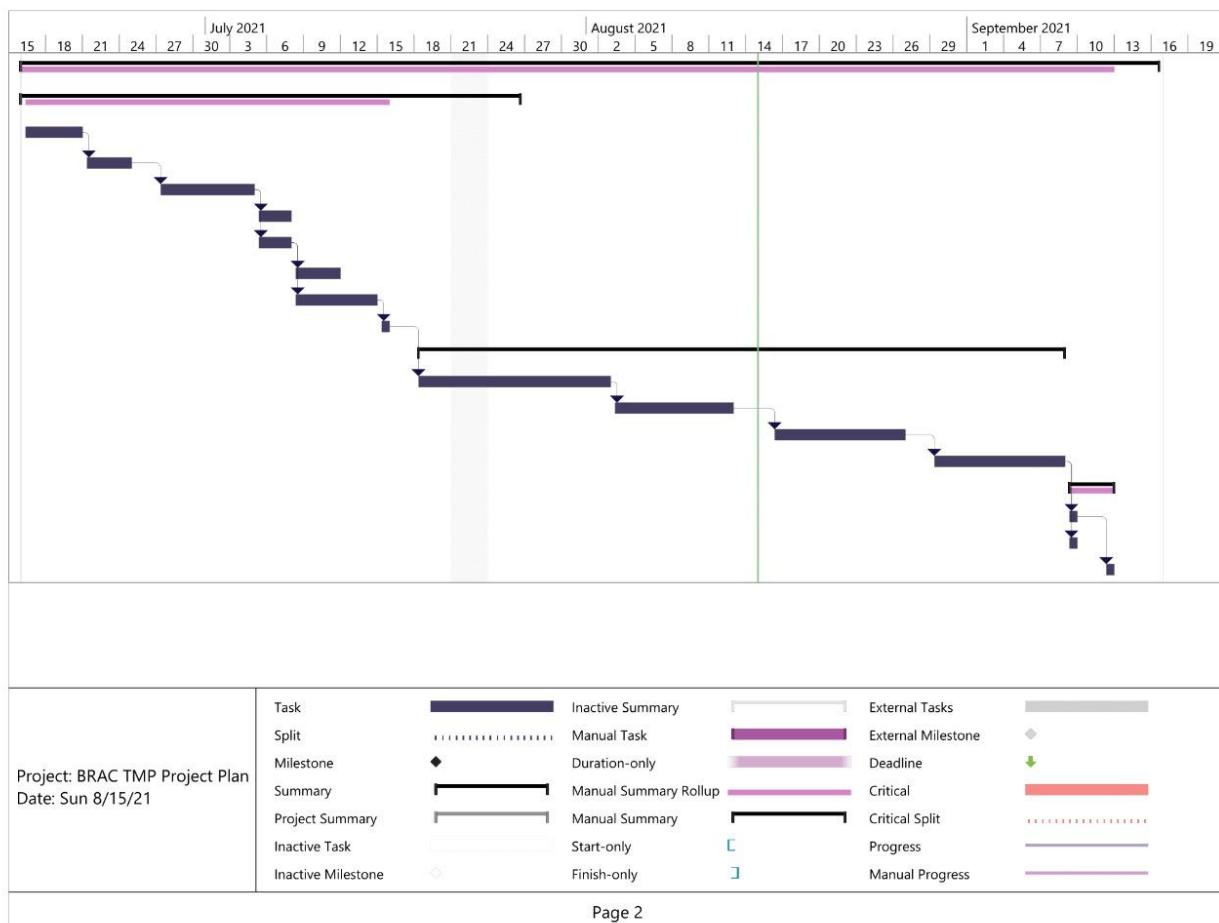


Figure: 3.4 Process/ Activity Wise Time Distribution

### **3.4 Process/Activity wise Resource Allocation**

Now talking about Process/Activity wise Resource Allocation. Doing a project with proper guideline process wise Resource Allocation is very effective. Here for “BRAC Online Career Hub” project we draw a table for Process/Activity wise resource allocation which is given below:

**BRAC Online Career Hub**

| Task Name            | Resource Allocation |
|----------------------|---------------------|
| FrontEnd Development | 30 %                |
| BackEnd Development  | 30 %                |
| Business Analysis    | 10 %                |
| UI/UX Designer       | 10 %                |
| Project Management   | 10%                 |
| Testing & Deployment | 10 %                |

Figure: 3.5 Process/Activity wise Resource Allocation

In this table for “BRAC Online Career Hub” project here from total Process/Activity wise Resource Allocation 30% is allocated for Front End Development and 30% for Back End development. 10% for UI/UX Designer, 10% for Business Analysis, 10% for Project Management. After that lastly for Testing and Deployment for each 10% has been selected.

## 3.5 Estimated Costing

For “BRAC Online Career Hub” Project BRAC made a proper Estimate cost. In every project Estimate costing is very important. Because of this estimate cost depends on a project’s resource requirements, project scope, project finish timing and many more things. On the “BRAC Online Career Hub” project they fixed 50% costing from their total cost for their development. For Managing the project they allocate 15% for project management. Similarly then 15% for Business Analysis. For the prototype project they fixed 10%. Lastly for Deployment and testing they allocate 5% cost for their project. Overall we can say that managing a project and doing it properly estimates costing is very important. It helps a lot doing the project properly.

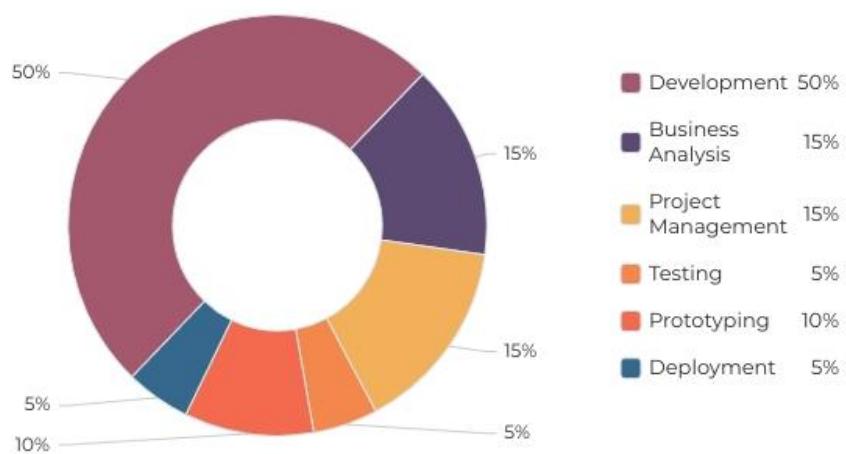


Figure: 3.6 Estimated Costing

# **Chapter 4(Methodology)**

## 4. Methodology:

Software development methodology is a procedure or arrangement of procedures utilized in programming advancement. Once more, very wide, however, it is things like a design phase, and development phase. It is intended to depict the how of the life cycle of a piece of software. For this project we have chosen the agile methodology. Agile software development refers to a group of software development methodologies based on iterative development, where requirements and solutions evolve through collaboration between self-organizing cross-functional teams. Agile methods or Agile processes generally promote a disciplined project management process that encourages frequent inspection and adaptation, a leadership philosophy that encourages teamwork, self-organization and accountability, a set of engineering best practices intended to allow for rapid delivery of high-quality software, and a business approach that aligns development with customer needs and company goals. Agile is a process by which a team can manage a project by breaking it up into several stages and involving constant collaboration with stakeholders and continuous improvement and iteration at every stage. This approach starts with customers portraying how the finished result will be utilized and what issue it will solve.

There are lots of good reasons to use scrum to become more Agile. Scrum is the subset of Agile. Using Scrum new features are developed incrementally in short Sprints.

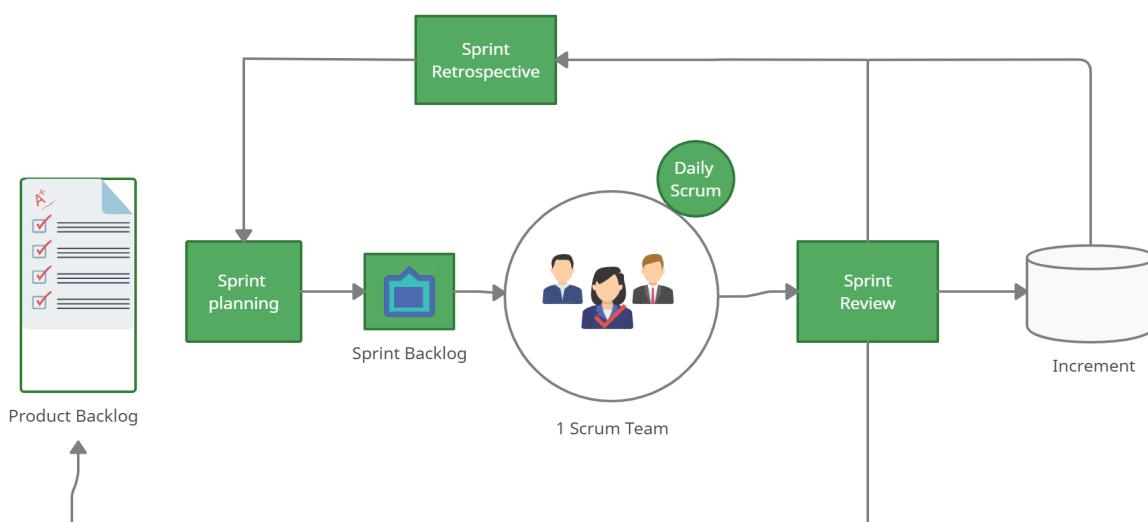


Figure: The Scrum Framework

This picture shows the whole process of how Scrum works in a project. This picture shows the full process of a project which one planned with scrum how the team members work with Scrum process. There are lots of benefits of using Scrum. Scrum will usually result in many benefits if the rules and practices for Scrum are followed during the implementation of a project using Agile Scrum Methodology. With Scrum work the development of the team work will be done simultaneously rather than sequentially. In Scrum methodology everything is flexible and changeable during the life of the project and even after.

Given below some key benefits from using Scrum:

1. Quicker release of useable product to users and customers
2. Higher quality
3. Higher productivity
4. Lower costs
5. Quality Improvement
6. Creativity and Innovation
7. Better employee morale
8. Better user satisfaction

Biggest advantage of doing work with Scrum is Higher productivity and Lower cost. With Scrum you can make your project more Creative and innovative. If the Scrum team or customer wants to make any kind of change then they can easily make any kind of change by the process of Scrum.

# **Chapter 5 ( Body of the Project)**

## **5.1 Work Description:**

The BRAC skills development program (SDP) for transforming the human capital of our country into skilled workers for that reason they started a project named "BRAC Online Career Hub ". SDP has a mission of empowering youths through skills development and decent employment so that a competent workforce can lead our nation forward. As an intern in this "BRAC Online Career Hub" project I worked on an Assessment Module. As an intern I contribute in this project to preparing SRS and preparing a Prototype for Assessment module. Here throughout my internship as an intern I worked as a business analyst in this project and my contribution was in this project that analyzes for a client's business how important it is to fit in their project with the hardware, software and wider IT system. For preparing the SRS I talk with users and other IT staff such as programmers and communicate with them to gather the requirements. After gathering the requirements I use them on a new system. For the Assessment module I also develop a prototype from the result of software requirement gathering. I also contribute to Software requirement specification after finishing the system analysis, gathering requirement and prototype approval. After finishing the SRS and Prototype part I also contribute to the Front End development field. Here we use Agile Scrum methodology for our software development. So as we know they have a full process of Agile Scrum methodology that's why I also follow all the processes of this methodology like I attend all the Scrum meetings and the meeting minutes, discuss work progress and process with the clients. So here as an intern for Assessment Module I prepare a SRS, Prototype and at the end in future I will develop the front end part of the module.

## **5.2 System Analysis:**

System development is a step-by-step procedure that contains several parts such as planning, maintenance, design, analysis etc. System analysis is a process of gathering and interpreting facts, finding problems, and breaking down the whole system into its individual components. A system analysis is conducted to investigate a system or its components in order to determine its goals. So overall system analysis is a problem-solving method that develops the system and ensures that all of the system's components work together to achieve their goals.

## 5.2.1 Six Element Analysis

| Process                   | System Roles |                        |                             |              |          |                           |
|---------------------------|--------------|------------------------|-----------------------------|--------------|----------|---------------------------|
|                           | Human        | Non-Computing Hardware | Computing Hardware          | Software     | Database | Network and Communication |
| Create Skill              | Admin        | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Assessment Management     | Admin        | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| User Management           | Admin        | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Create Source             | Admin        | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Edit Source               | Admin        | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Set Improvement Plan      | Admin        | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Create New Course         | Admin        | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Participant Activities    | Trainer      | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Create Improvement Plan   | Trainer      | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Create Quiz               | Trainer      | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Create Assessment         | Trainer      | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Participant Information   | Trainee      | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| Perform course Assessment | Participant  | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |
| View Achievement          | Participant  | n/a                    | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB  | WAN                       |

|                        |             |     |                             |              |         |     |
|------------------------|-------------|-----|-----------------------------|--------------|---------|-----|
| View Available Courses | Participant | n/a | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB | WAN |
| View Wishlist          | Participant | n/a | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB | WAN |
| Visit the Website      | All Users   | n/a | Laptop, Tab, PC, Smartphone | All Browsers | MariaDB | WAN |

## 5.2.2 Effect and Constraints Analysis

In this Assessment Module all participants will be able to attend their assessment and can view the assessment result also. All participant activities will be on an assessment module. Here they can attend their assessment, can attend improvement assessment, can view assessment and improvement plan results.

As discussed earlier, our system has some constraints. We are planning to overcome those constraints in the future.

## 5.2.3 Feasibility Analysis

The analysis of a proposed project to determine whether it is feasible and should go ahead is called feasibility analysis. Confirmation of design, plan and strategy is the main priority of this analysis. This can be used to validate assumptions, constraints, decisions and approaches. A feasibility study is conducted to determine whether the project, upon completion, will serve the organization's purpose for the amount of work, effort, and time spent on it. A feasibility study enables the developer to envision the project's future and usefulness. A feasibility study evaluates a system proposal's workability, which includes the impact on the organization, the ability to meet user needs, and the efficient use of resources.

A feasibility study assists in identifying logistical issues, as well as nearly all other business-related issues and their resolutions. Additionally, feasibility studies can result in the development of marketing strategies that persuade investors or a bank that investing in the business is a sound investment. A feasibility study is conducted to determine the viability of a proposed system in terms of technical, operational, and economic factors. After conducting a feasibility study, we can gain a clear understanding of the system's advantages and disadvantages.

There are some main parts of feasibility analysis. They are -

## 1) Technical Feasibility:

The technical possibility of developing a product per client expectation is called technical feasibility. In technical feasibility, evaluation of the software, hardware and the other technical requirements of the proposed system are performed. This evaluates the details of how we intend to deliver a product or service to customers. Labor, materials, transportation, where our business will be located, and the technology that will be necessary to bring all this together.

To build our project “BRAC Online Career Hub” we use ReactJs and Laravel. We use the 17.0.2 version of ReactJs and HTML, JS and CSS. ReactJS is much easier to learn and use. React simply enables developers to use individual components of their application on both the client-side and the server-side, resulting in a faster development process. For Creating a faster and more effective website Reactjs, HTML, CSS, JS helps a lot.

## 2) Operational Feasibility:

Operational feasibility is a measure of how well a proposed system solves the problems and satisfies the system requirements identified during the scope definition and problem analysis phase. It is dependent on human resources available for the project and involves projecting whether the system will be used if it is developed and implemented.

“BRAC Online Career Hub” has been developed in a very easy and simple way so that everyone can use this easily without any hassle. It is a well planned system which is very easy to understand and easy to use. People will accept it without any doubt. People of all ages will be able to use it. Users need not have a lot of technical knowledge to run this system. Every instruction is very clear to the users. We hope this system will be able to fulfill the requirements of the users.

## 3) Economic Feasibility:

In economic feasibility, costs and benefits are identified. It determines cash flow and assigns values to costs and benefits. Development costs and production costs are included in economic feasibility.

Our project “Online Career Hub” is a platform from which people will benefit in so many ways. We can say that our project system is nothing but a product. If this system can reach the users it

will definitely bring benefits. On one hand it will reduce the costs of wasting pens and papers. On the other hand benefits will come depending on the uses.

## 5.2.4 Problem Solution Analysis

### Problems:

Every work has some problems. In Our System may also cause issues such as

- 1. Eye strain:** As harmful radiations are emitted from the PC, Laptop and Mobile screens then it may cause some eye strain problems.
- 2. Internet:** As this system will require internet connection once it has been launched.
- 3. Load shedding:** If anyone uses desktop and Wifi routers then load shedding may create problems while using this system.
- 4. Page-Loading:** The traditional html/css/js took much time to load and had C grade rating when tested.

### Solutions:

While there are problems, there are solutions too. Now I am going to discuss about the solutions of the problems mentioned above-

- 1. Eye strain solution:** Brightness of the device should be maintained while using this system.
- 2. Solution to the internet problem:** Nowadays internet data is not so costly that we cannot afford that. Our system does not consume a lot of data.
- 3. Load shedding solution:** As this system can be run from laptop and mobile that do not require continuous electricity connection, users can use them very easily.

**4. Page Loading Solution:** We use ReactJs Framework for developing our project which helps a project to become more Faster and more efficient.

## 5.3 System Design

### 5.3.1 Rich Picture

Here in this rich picture we can see the scenario of the Participant Module of Phase 2 (Assessment Module). Here participants can apply for enrollment in any course, can sit for assessment tests, participants can join online classes, participants can attend quizzes and can see the quiz result and can also sit for the improvement plan. After passing the course, participants can view the certificate also. Our Restful CRUD APIs, which will be created particularly for this Website to manage data on the go, these actions are handled by them.

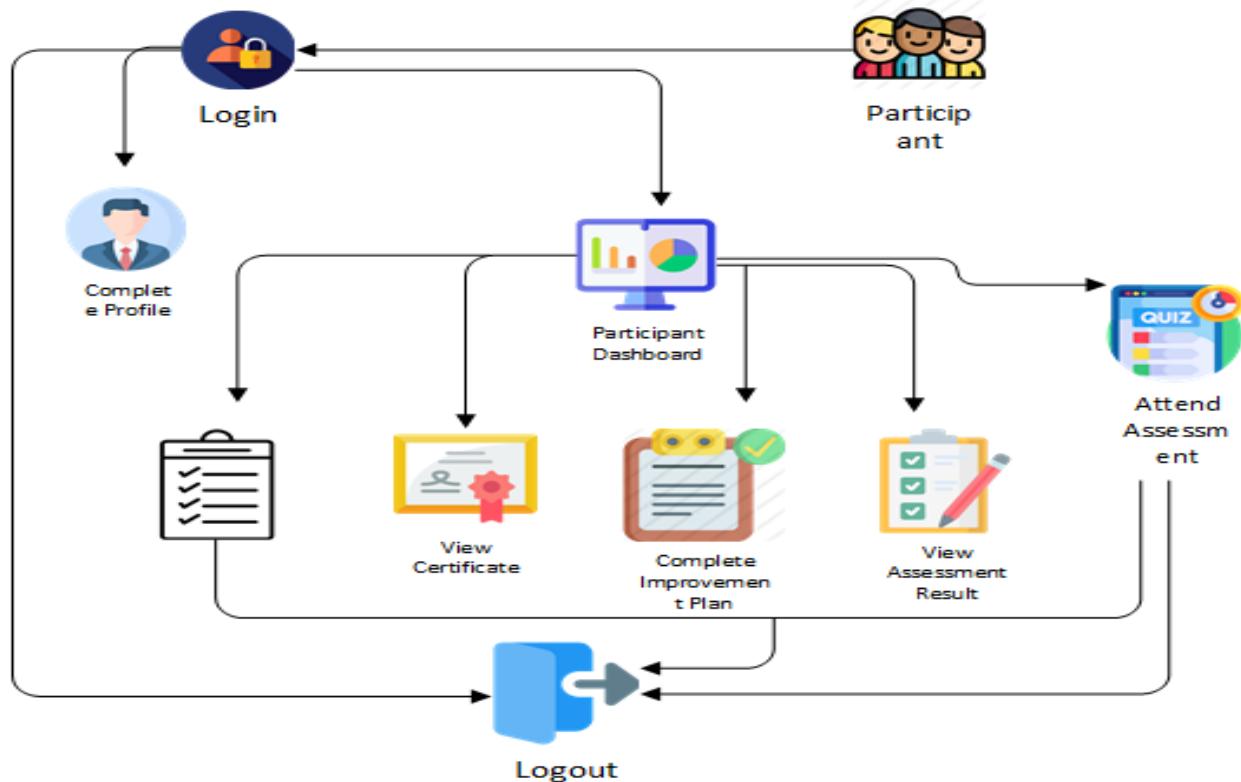


Figure : Participant Module Rich Picture

Now we can see the scenario of the Admin Module of Phase 2(Assessment Module). Here in this Rich picture from the journey of Admin Module we can see that Admin can create skill and will also be able to edit skill, can create and update funding info, can manage user information, can set improvement plans. Here all these activities as mentioned these activities will be carried out

by using our Restful CRUD APIs, which we will created specifically for this Website in order to handle data on the move.

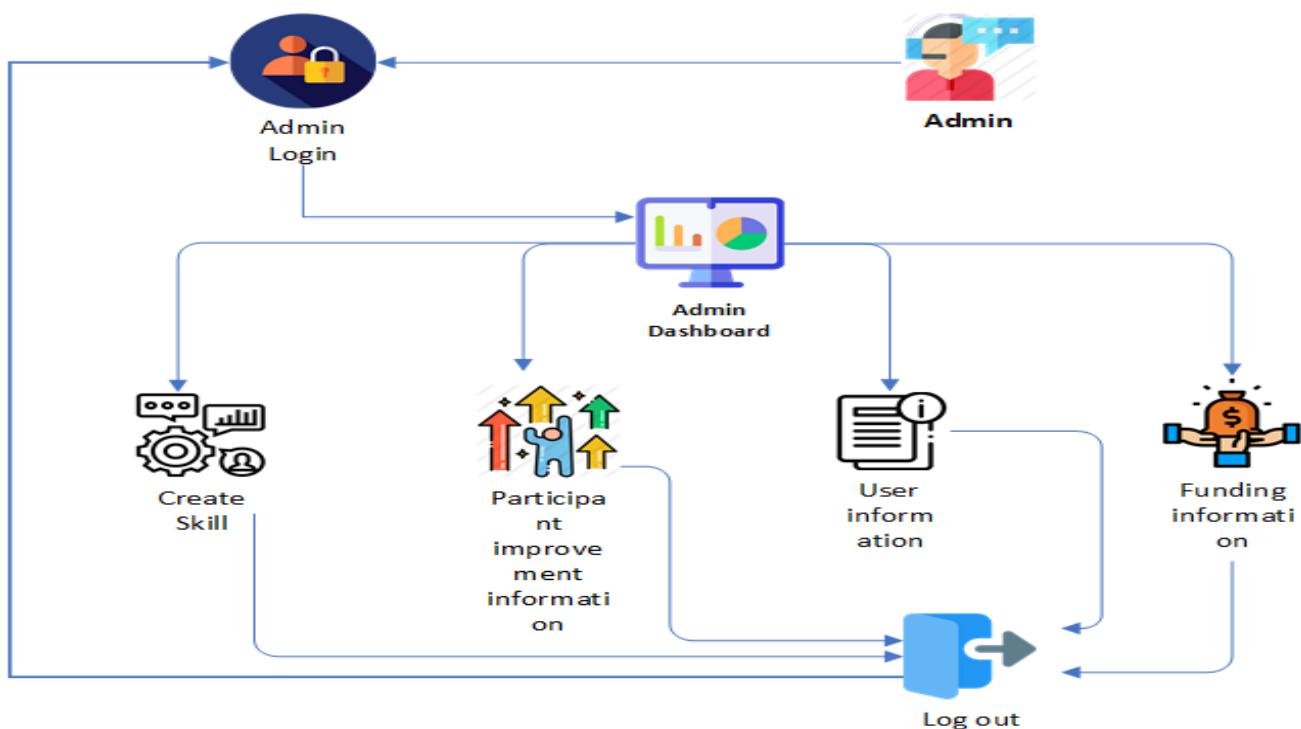


Figure : Admin Module Rich Picture

Now here we can see the scenario of the trainer module of Phase 2(Assessment Module). Here in this trainer module as a trainer they can create a quiz, can view the participant's information and all activities, can create assessments and also can create improvement plans. Here for handling all these activities the API will be used to connect ourReact.js application to the server.

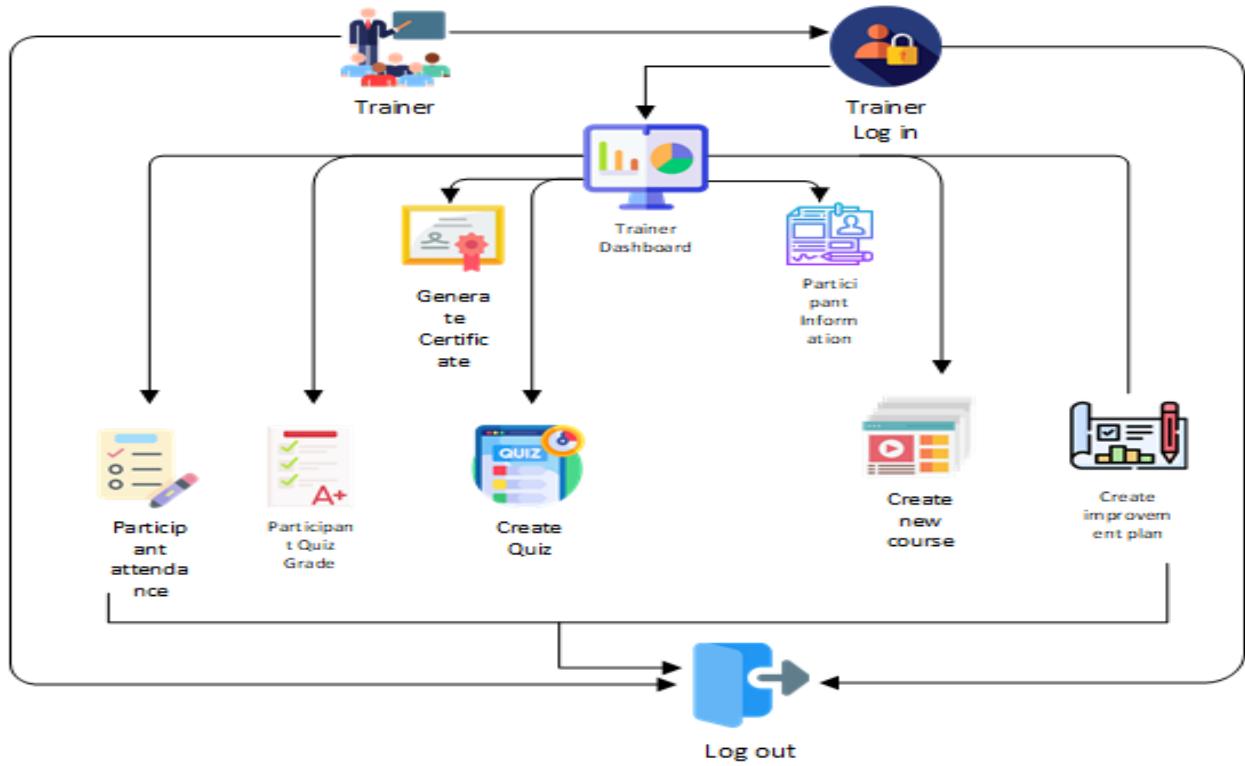


Figure : Trainer Module Rich Picture

### 5.3.2 UML Diagrams

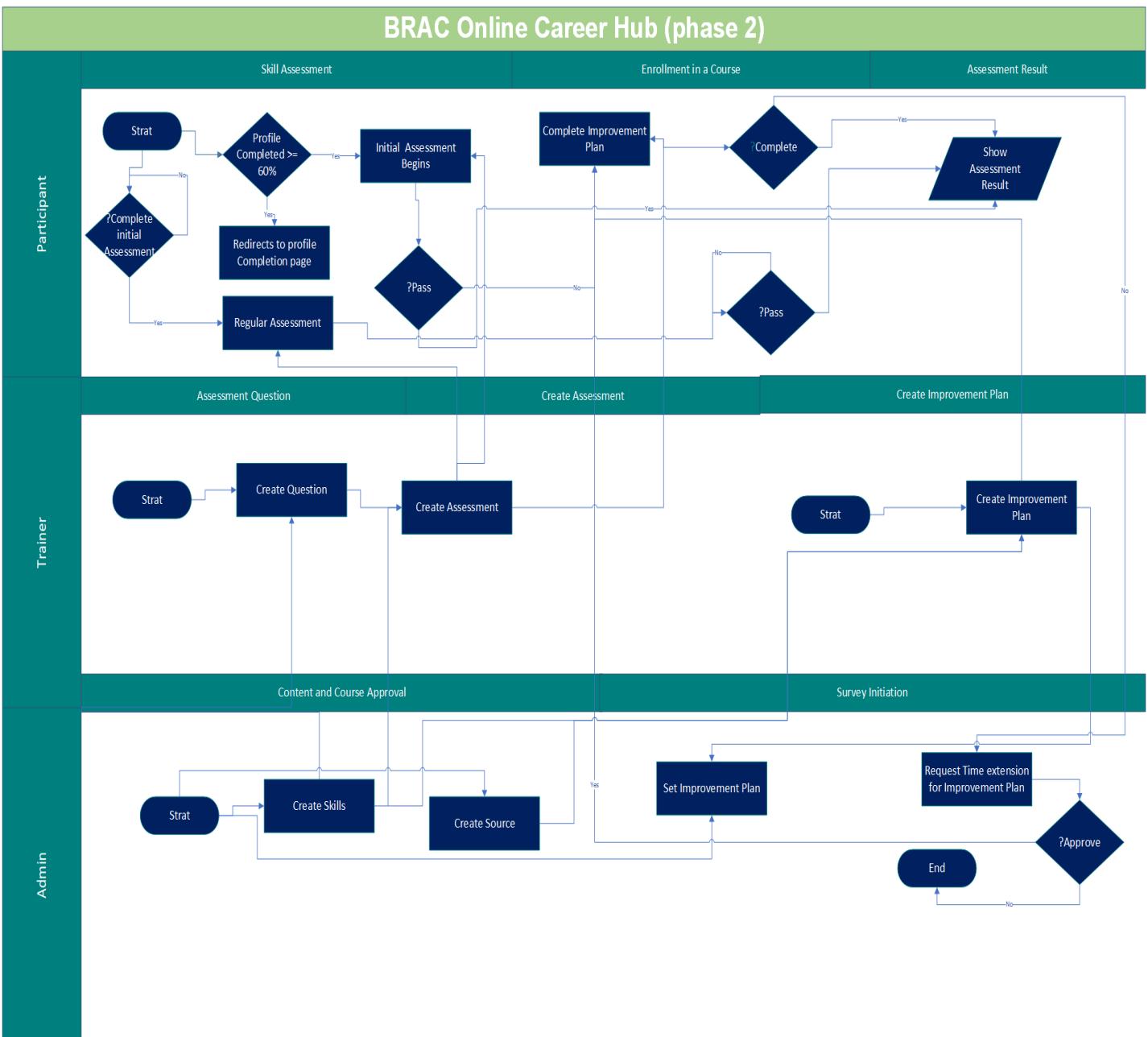


Figure : Activity Diagram

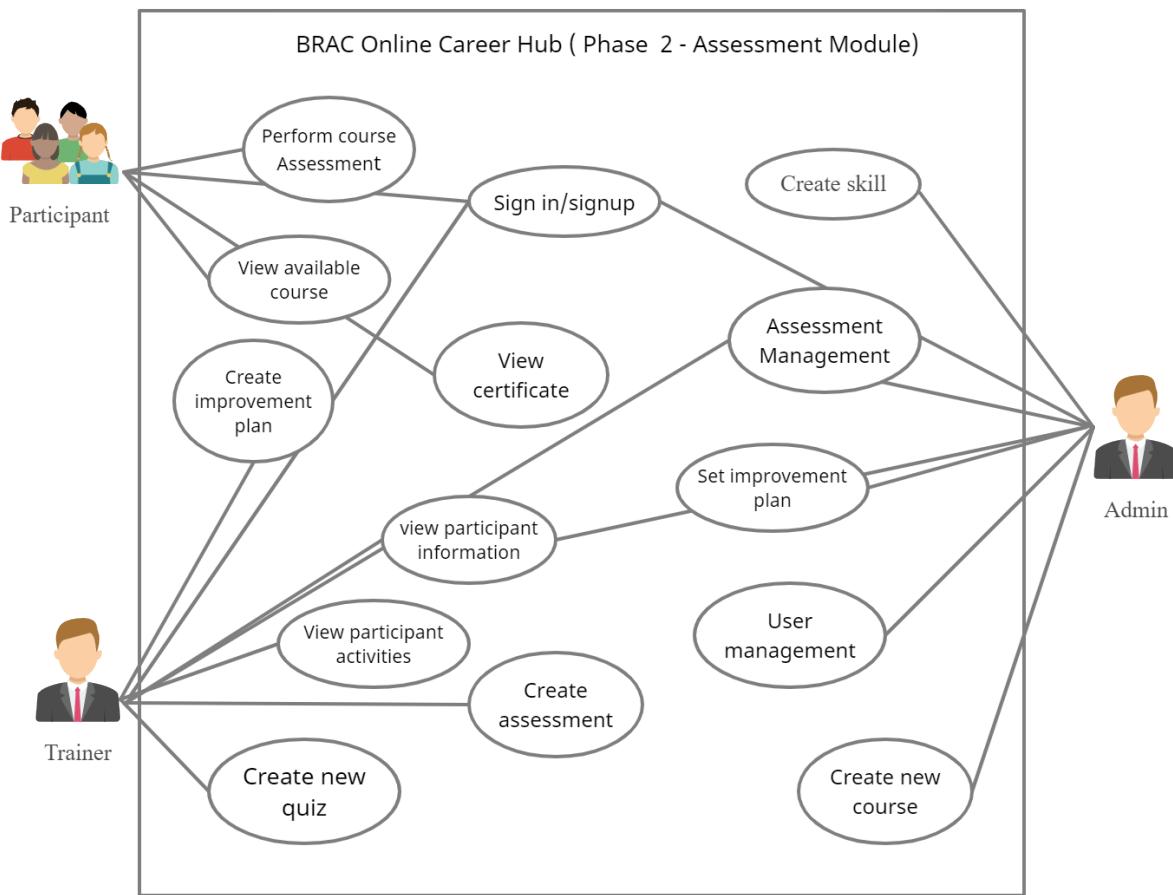


Figure : Use Case Diagram

### 5.3.3 Functional and Non-Functional Requirements

#### Functional Requirements:

| Skill Assessment Module       |   |
|-------------------------------|---|
| General option of bulk upload | <ul style="list-style-type: none"><li>Ability of trainers to upload/ modify assessment questions.</li><li>Psychometric assessment test for learners.</li><li>In built format for development of assessment questions.</li></ul> |

|                  |   |
|------------------|---|
| Assessment       | <ul style="list-style-type: none"> <li>● Assessment of current skills:           <ul style="list-style-type: none"> <li><input type="checkbox"/> Technical Skills Assessment Test: The learners will appear at psychometric tests against fixed sets of questions and will be scored based on their performances and tests' results. The tests will be categorized into three distinguished categories such as beginner, intermediate and advanced. Each of these categories will enable three different levels of people to judge their current skills. Such as a beginner test for novice/early career professionals, intermediate test for mid-career professionals and advanced level test for professionals who have walked a long way in their career.</li> <li><input type="checkbox"/> Soft Skills Assessment Test: Learners/professionals will also appear at soft skills tests in the similar way and receive a test score afterwards.</li> <li><input type="checkbox"/> Interest based Psychometric Test: Learners/professionals will also be able to give a Psychometric Test to understand their interest and hidden potential.</li> <li><input type="checkbox"/> Participants will also be joining Regular/Job type assessment tests.</li> <li><input type="checkbox"/> These individual scores will be stored in the learners' personal database against their account.</li> </ul> </li> </ul> |
| Improvement Plan | <ul style="list-style-type: none"> <li>● Participants will get improvement plans created by trainers if they find themselves weak in assessment's performance.</li> <li>● Improvement plans will be set by Admin.</li> <li>● Participants can request for a time extension to the admin to complete the improvement plan.</li> </ul>  |
| Results          | <ul style="list-style-type: none"> <li>● Dashboard for displaying the assessment result.</li> <li>● The test results of the learners will be stored under a separate section in the dashboard.</li> </ul>   |

|                                  |  |
|----------------------------------|--|
| Certification Generation Journey | <ul style="list-style-type: none"> <li>• Admin will be able to create and edit Funding and Signatory Information.</li> <li>• Trainer will be able to input funding donor and relevant signatory information from Course Builder.</li> <li>• Competent Participants will get the certificate upon successful completion of training from the Participant's Achievements section.</li> </ul> |
| Recorded Live Class Session      | <ul style="list-style-type: none"> <li>• Trainer will be able to incorporate the recorded live class session from the course builder which will be available to the participants in their day wise course details page.</li> </ul>   |

## Non-Functional Requirements:

### Usability Requirements

- User friendly Graphical User Interface (GUI).
- Easy navigation.

### Reliability Requirements

- Precisions should be appropriate all over the queries/calculations.
- Strong role based functionality access security mechanism.
- Data consistency will be provided across the application.

### Performance Requirements

- Quick report generation facility.
- Process time will be optimum.
- Appropriate messaging will be there.

## 5.4 Product Features

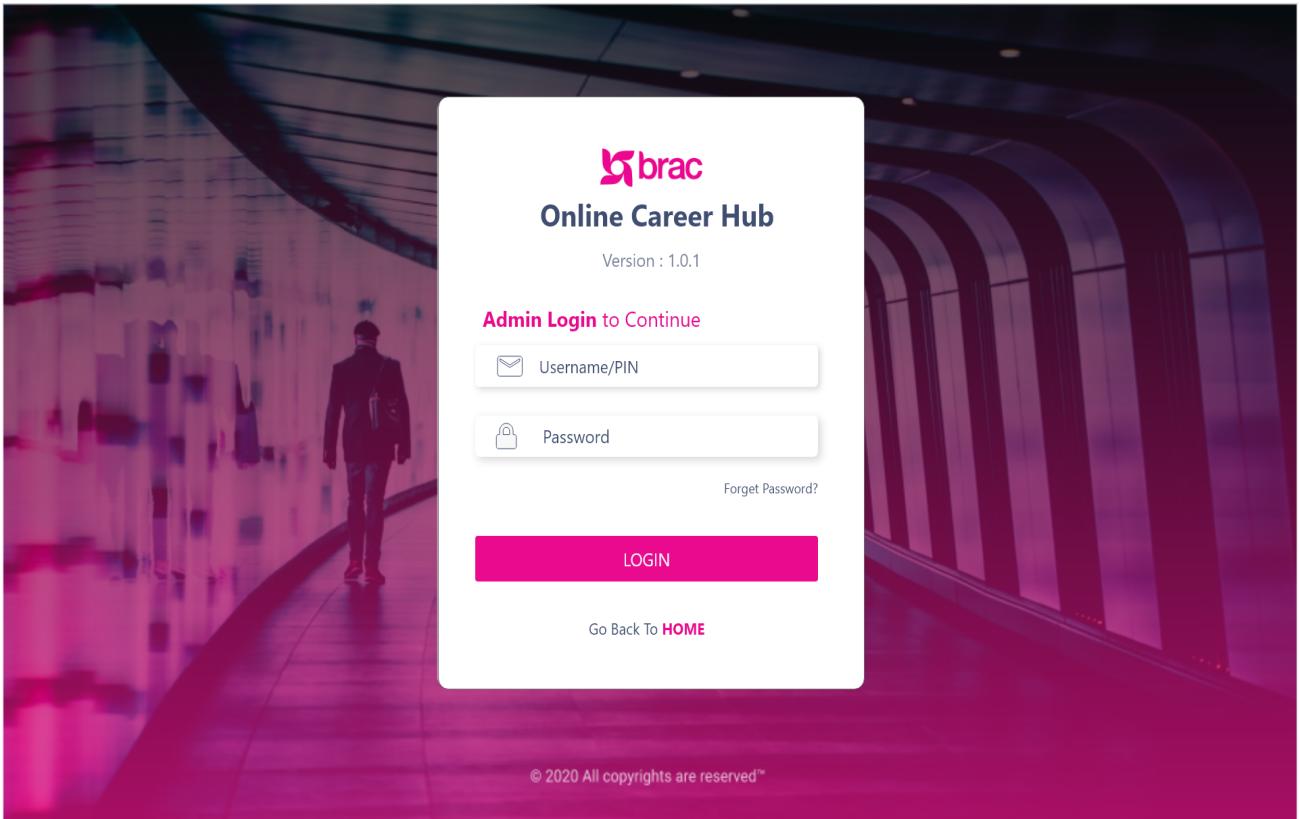
Here I have included all the features a user will receive from this project.

### 5.4.1 Input and Output

**Landing page :** This is the landing page of our Online Career Hub Project. Here in this page when a user will login to Online Career Hub website they will view this page.

The screenshot displays the homepage of the Online Career Hub. At the top, there's a navigation bar with links for 'Join Now', 'For Register', 'For Trainer', 'Login', 'Forgot Your Password?', and 'Admin'. Below the header, a large banner features three people holding certificates and a pink triangle graphic. The text 'Online Career Hub' and 'Build skills with courses, certificates, and degrees online from expert trainers & companies.' is visible. A 'Join Now' button is located in the top left corner of the banner area. Below the banner, there's a section titled 'Popular Courses' with three cards: 'UI/UX & Graphics Design' (By World Graphic Designer), 'Mobile App Development' (By Excellent Team Developer), and 'ICT Project Management' (By Topnotch Team Experts). Each card includes a 'FREE 100 Days Left' badge and an 'Enroll Now' button. To the right of these cards is a 'Browse Training' button. Further down, a section titled 'Achieve your goals with BRAC' highlights 'High-classified training & counselling from the experts'. It features four icons: 'Easy Enrollment with instant trainings', 'Career Counselling from trainers & experts', 'Certifications for completed training', and 'Career Growth to get better opportunity'. Below this is a 'Upcoming Courses' section with three more course cards: 'UI/UX & Graphics Design' (By World Graphic Designer), 'Mobile App Development' (By Excellent Team Developer), and 'ICT Project Management' (By Topnotch Team Experts). Each card shows a 'FREE 100 Days Left' badge and an 'Enroll Now' button. To the right of these cards is a 'View More' button. Next, there's a section titled 'Get in our Online Live Classroom' featuring a 'Join Live Class' button and a video thumbnail showing a person in a video call. Below this is a dark blue banner with the text 'Expert Mentors Assistance For Career Growth Development' and a 'Get Started' button. The main content area then features a circular illustration of people interacting and a section titled 'Forum for Individual Training Course Based Discussion Forum' with a 'Join Now' button. At the bottom, a large call-to-action box says 'We are here to serve you' with the subtext 'Take the next step towards your professional goals with BRAC'. It lists statistics: '2400+ Online Courses', '99,854+ Enrolled Participants', and '650+ Expert Trainers'. The footer contains links for 'About Us', 'Learner Support', 'Guru Support', and 'Learn Support', along with social media icons and a copyright notice.

**Login page :** This is the Online Career Hub Trainer's login page. From here Trainer will be able to login and access all the features of our website.



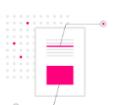
# Trainer Dashboard : This is the trainer dashboard page. Trainer will view this page when they log in as a trainer.

880-1712-121214
vacancy\_brac@careerhub.com.bd
[HOME](#)
What are you looking for 
[My Question](#)
[My Vault](#)
[Logout](#)

Today's Summary

**Welcome back Saiful Islam**  
Check & Explore your Training and Participants Information

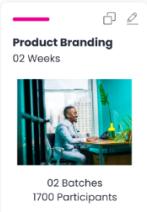
[My Activities](#)



Existing Courses









[View All Courses](#)

Create New Course

Participants Information

| Name   | ID No.                                 | Offline Competency. | Status  | Action   |
|--|--|---------------------|---------|--|
| Fatema Sultana<br>Email : fatema156@gmail.com  | ID - 10001<br>Enrollment : 02 Dec 2020 | Select Competency   | Running | <a href="#">Details</a> <a href="#">Transfer</a> |
| Shahadat Hossain<br>Email : shahadat@gmail.com | ID - 10002<br>Enrollment : 25 Nov 2020 | Not Competent       | Running | <a href="#">Details</a> <a href="#">Transfer</a> |
| Nazmul Parvez<br>Email : nzmparvez@gmail.com   | ID - 10003<br>Enrollment : 20 Nov 2020 | Competant           | Passed  | <a href="#">Details</a> <a href="#">Transfer</a> |
| Farzana Khan<br>Email : fatema15@gmail.com     | ID - 10004<br>Enrollment : 19 Nov 2020 | Competant           | Passed  | <a href="#">Details</a> <a href="#">Transfer</a> |
| Fatema Sultana<br>Email : fatema156@gmail.com  | ID - 10001<br>Enrollment : 02 Dec 2020 | Select Competency   | Running | <a href="#">Details</a> <a href="#">Transfer</a> |
| Shahadat Hossain<br>Email : shahadat@gmail.com | ID - 10002<br>Enrollment : 25 Nov 2020 | Not Competent       | Running | <a href="#">Details</a> <a href="#">Transfer</a> |
| Nazmul Parvez<br>Email : nzmparvez@gmail.com   | ID - 10003<br>Enrollment : 20 Nov 2020 | Not Competent       | Running | <a href="#">Details</a> <a href="#">Transfer</a> |
| Farzana Khan<br>Email : fatema15@gmail.com     | ID - 10004<br>Enrollment : 19 Nov 2020 | Competant           | Passed  | <a href="#">Details</a> <a href="#">Transfer</a> |

Show [All](#) entries

Showing 1 to 8 of 08 entries

[Previous](#) [1](#) [Next](#)

Saved Courses









[Create New Course](#)

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Online Career Platform

BRAC centre, 75,mohakhal  
Tel:+8802-222281265  
E-mail: info@brac.net

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Lorum Ipsum

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## Trainer Create New Course page :

Screenshot of the 'Create New Course' page on the BRAC Learning Management System.

**Header:** Shows the URL [www.braclearning.com.bd](http://www.braclearning.com.bd), a search bar, and navigation links for 'My Dashboard', 'Logout', and social media sharing.

**Create New Course Form:**

- Name of the Training:** Adobe Photoshop CC 2020, Scheduling Unit: Day-Wise, Capacity: 30.
- Category:** Design & Creatives, Sub-Category: Graphic Design.
- Training Overview:** A brief description of the course.
- Date & Time:** Start Date: 12 December, 2020, End Date: 12 January, 2021.
- Pricing Package:** PAID.
- Amount (in BDT):** 2500.
- Upload Training Cover Image:** photoshop\_courses.png (Image Size Ratio: 1000 x 900 px | Jpg / Png Format).
- Upload Training Preview Video:** Training\_Preview.mp4 (Video Size - maximum capacity 100 MB | Mp4 / M4v Format).
- Funded By:** DONOR, Donor 01: Donor Name, Donor 02: Donor Name.
- Signatory 01:** Signatory Name, Signatory 02: Signatory Name.
- Training Details:** Theme: Poppins, Font: ABC, Text color: #FF0000.
- What you will learn:**
  - Become a Professional UX designer
  - You will create UX portfolio
  - Become a UI designer
  - Build & test a full website design
- Marks Distribution:** Attendance (%): 10, Regular Quiz (%): 20, Final Quiz (%): 70, Total (%): 100, Passing Percentage (%): 60.
- Resources & Scheduling:**
  - Load Files From Vault:** Choose files from here.
  - File List:** Resource\_21.docx, Assignment Test 01.pdf, Adobe Photoshop CS5.mp4.
- Training Schedule:**
  - For Day 01:** Class Topic: How to become a Professional UX Designer.
  - Start Date:** 12 December, 2020, **Start Time:** 10:30 AM, **End Time:** 12:30 PM.
  - Live Online Class:** Enter Live Class Link.
  - Resource (Downloadable):** sample file 01.pdf, Sample File 02.pdf, File 01.pdf, File 02.pdf.
  - Quiz:** Select Quiz.
  - Assignment:** Enter Title: 12 December, Due Date: 12 December, 2020.
  - Offline Lab:** Select Lab.
  - Additional Requirements:** Projector System, A4 Paper and Pen, Internet.
  - Buttons:** Save Now, + Add More.
- Buttons at the bottom:** CLOSE, SAVE, PUBLISH.
- Career Hub Footer:** Includes contact information, social media links, and a copyright notice.

**Trainer Create New Quiz page :** This is the page for creating New quiz as Trainer.

Create New Quiz

Quiz Name / Title of the Quiz

Quiz Type

Category

Sub Category

Select Course

Duration / Time

Total Mark

Choose Type

Question 01:

Question 02:

Question 03:

Question 04:

Add More Question

Publish  ON

Mark

Mark

Mark

Mark

CLOSE

SAVE



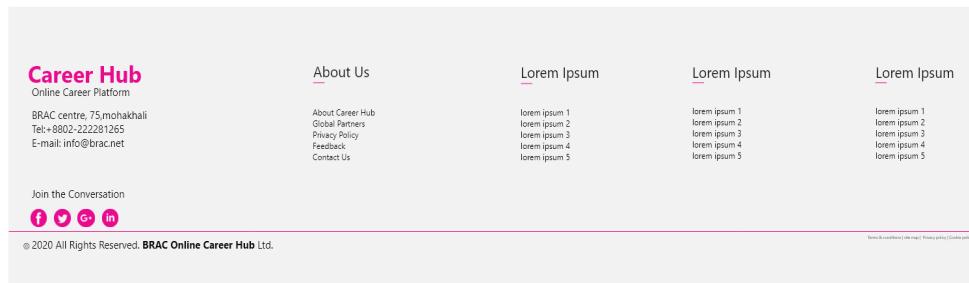
## Trainer Create New Assessment :

The screenshot shows the 'Create New Assessment' page. At the top, there's a header with a phone number (+880-1712-121214), an email (vacancy\_brac@careerhub.com.bd), and social media links for Facebook, Google+, YouTube, and LinkedIn. The header also includes language selection (ENG, বাংলা) and a 'Logout' button. Below the header, the main content area has a title 'Create New Assessment' and a status indicator 'Inactive' (with a switch to 'Active').

The form fields include:

- Assessment Title:** Basic Design Work Flow
- No of Questions:** 100
- Duration / Time:** Duration (in minutes)
- Experience Level:** Beginner
- Assessment Type:** Initial
- Select Skill:** A list of five skills: Skill 1 (Logic Reason), Skill 2 (Digital Literacy), Skill 3 (Team Building), Skill 4 (Communication), and Skill 5 (Problem Solving).
- Difficulty Level:** A table showing the number of questions for different levels: Easy (60), Medium (30), and Hard (10).
- Improvement Plan:** A table showing the plan and benchmark for Intensive and Moderate levels.

At the bottom are 'CLOSE' and 'SAVE' buttons.



## Trainer Create New Improvement plan page :

Header: +880-1712-121214, vacancy\_brac@careerhub.com.bd, brac, HOME, What are you looking for, Inactive Active, My Question, My Vault, Logout, ENG বাংলা

**Create New Plan**

|                                |                  |                           |                 |
|--------------------------------|------------------|---------------------------|-----------------|
| Improvement Plan Title         | Experience Level | Required Improvement Plan | Timeline (Days) |
| Improving Communication Skills | Medium           | Intensive                 | 10              |

**Resources & Scheduling**

**Load Files From Here**

Choose File From Vault

Select Category: Design (21 KB), Business (50 KB), Accounting (33 KB), Productivity (31 KB)

Select Sub-Category: Design (21 KB)

Select File: Resource\_21.docx, Assignment Task 01.pdf, Adobe Photoshop 01.mp4

Selected Files: Resource\_21.docx, Assignment Task 01.pdf, Adobe Photoshop 01.mp4

**Resources**

| Relevant Skill   | Source   | Source Type |
|--|----------|-------------|
| Communication  | Coursera | Web Link    |
| Web Link: <a href="https://www.coursera.org/learn/wharton-communication-skills">https://www.coursera.org/learn/wharton-communication-skills</a> <span style="color: red;">Delete</span> <span style="color: red;">+</span> |          |             |

| Relevant Skill   | Source Type |
|--|-------------|
| Communication  | Content     |
| Resource: Sample File 01.pdf, Sample File 02.doc, Sample File 03.pdf |             |

+ Add More

CLOSE SAVE

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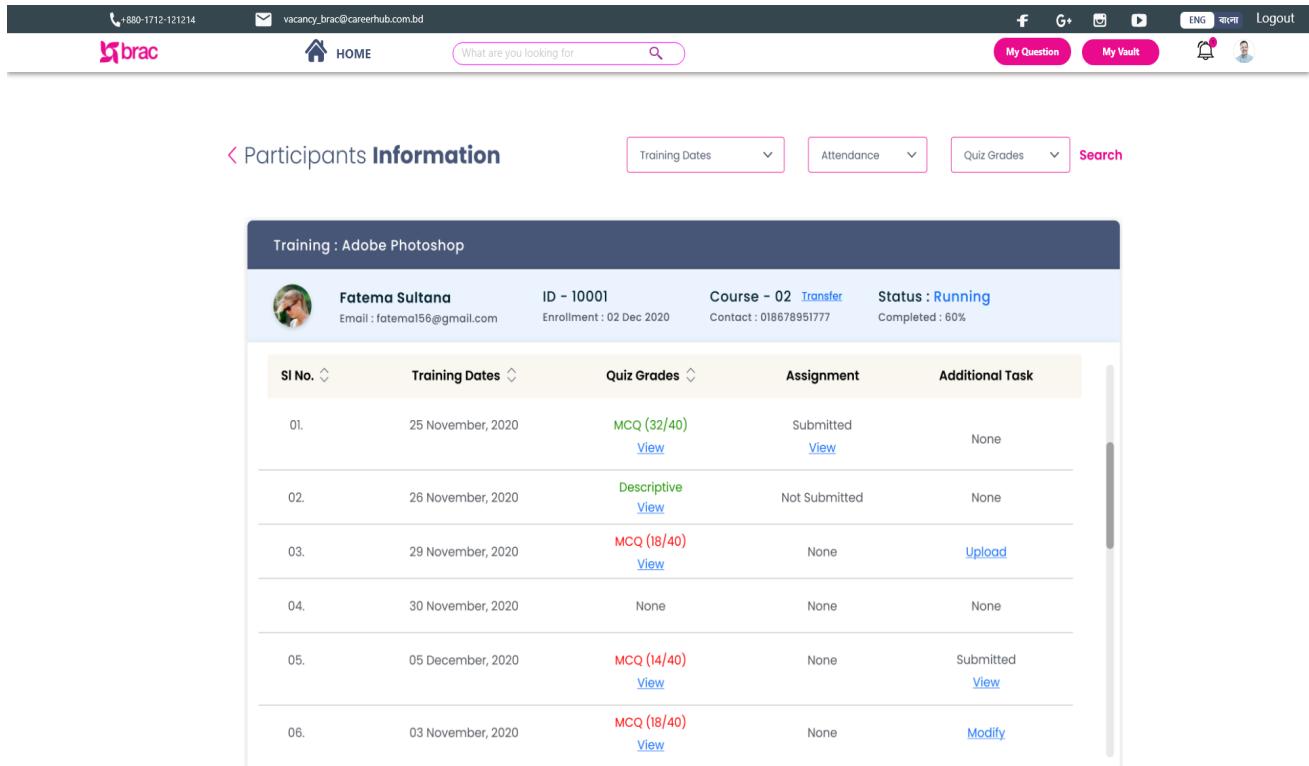
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**Trainer view Participant Activity page :** This is the page from where the trainer will be able to visit the participant activity.



The screenshot shows the 'Participants Information' section for a training course titled 'Training : Adobe Photoshop'. At the top, there is a header bar with various links and icons. Below the header, the participant's profile is displayed: Name - Fatema Sultana, ID - 10001, Course - 02 Transfer, Status - Running. Enrollment date: 02 Dec 2020, Contact: 018678951777, Completed: 60%. The main content area is a table showing the participant's activity history:

| SI No. | Training Dates    | Quiz Grades                         | Assignment                        | Additional Task                   |
|--------|-------------------|-------------------------------------|-----------------------------------|-----------------------------------|
| 01.    | 25 November, 2020 | MCQ (32/40)<br><a href="#">View</a> | Submitted<br><a href="#">View</a> | None                              |
| 02.    | 26 November, 2020 | Descriptive<br><a href="#">View</a> | Not Submitted                     | None                              |
| 03.    | 29 November, 2020 | MCQ (18/40)<br><a href="#">View</a> | None                              | <a href="#">Upload</a>            |
| 04.    | 30 November, 2020 | None                                | None                              | None                              |
| 05.    | 05 December, 2020 | MCQ (14/40)<br><a href="#">View</a> | None                              | Submitted<br><a href="#">View</a> |
| 06.    | 03 November, 2020 | MCQ (18/40)<br><a href="#">View</a> | None                              | <a href="#">Modify</a>            |


The footer section includes the 'Career Hub' logo, 'Online Career Platform', contact information (BRAC centre, 75 mohakhali, Tel: +8802-22221265, E-mail: info@brac.net), social media links (Facebook, Twitter, Google+, LinkedIn), and copyright information (© 2020 All Rights Reserved, BRAC Online Career Hub Ltd.). There are also links for 'Terms & conditions | Site map | Privacy policy | Cookie policy'.

## Participant Dashboard page :

+880-1712-121214
vacancy\_brac@careerhub.com.bd
ENG
KIRATI
Logout

HOME

Course history
Achievements
Wishlists
My Courses

Welcome Afifa Aman Ana

**Jobs For Me**  
Find your desired job

**Available Courses**  
Train and sharpen Your skills

**Afifa Aman Ana**

Your Profile is completed for 60%

[Finish Your Profile](#)

**Career Counselling**  
On demand Queries

**Skill Assessment**  
Know Your Strength

Most Recent Hot Jobs (06)

| <b>Job Title</b>                     | <b>Company</b>     | <b>Nature</b> | <b>Location</b>    |  |
|--------------------------------------|--------------------|---------------|--------------------|--|
| <b>Front-End Developer</b>           | Steel Times        | Part-Time     | Banani,11,Dhaka    | <a href="#" style="border: 1px solid #007bff; border-radius: 10px; padding: 5px 10px; color: inherit;">Apply Now</a> |
| <b>Web-Analyst</b>                   | Brac               | Full-Time     | Gazipur,Dhaka      | <a href="#" style="border: 1px solid #007bff; border-radius: 10px; padding: 5px 10px; color: inherit;">Apply Now</a> |
| <b>Senior Motion Graphics Design</b> | I.K Properites     | Contractual   | Gulshan,02,Dhaka   | <a href="#" style="border: 1px solid #007bff; border-radius: 10px; padding: 5px 10px; color: inherit;">Apply Now</a> |
| <b>Marketing Manager</b>             | Plan International | Full-Time     | 75,Mohakhali,Dhaka | <a href="#" style="border: 1px solid #007bff; border-radius: 10px; padding: 5px 10px; color: inherit;">Apply Now</a> |
| <b>Supply Chain Director</b>         | AjkerDeal.com      | Full-Time     | North-Badda,Dhaka  | <a href="#" style="border: 1px solid #007bff; border-radius: 10px; padding: 5px 10px; color: inherit;">Apply Now</a> |
| <b>Cardiac Specialist</b>            | Labaid Hospital    | Full-Time     | 75,Mohakhali,Dhaka | <a href="#" style="border: 1px solid #007bff; border-radius: 10px; padding: 5px 10px; color: inherit;">Apply Now</a> |

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BRAC centre, 75,mohakhali  
Tel:+8802-222281265  
E-mail: info@brac.net

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**Lorem Ipsum**

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lorem ipsum 5

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## Participant Available Course page :

800-1712-121214  
vacancy\_brac@careerhub.com.bd

**HOME** What are you looking for

Course history Achievements Wishlists My Courses ENG বাংলা Logout

**Country's Largest Selection of Courses**  
Build skills with courses certificates, and degrees online from Expert trainers & companies

**Available Courses**

**Graphics Design**  
Course List Find Your Desired Match

- User Experience Design
- User Interface Design
- Computer Graphics
- web Design
- Mobile App Design
- Prototype Design
- Adobe photoshop CC
- Adobe Illustrator 2020
- Adobe XD
- Adobe Dimension CC
- Interaction Design

**Mobile App Development**  
Course List Find Your Desired Match

- Full Stack development
- HTML 5
- CSS 3
- JavaScript language
- DevOps
- C Programming
- Django
- Android programming
- Swift Ios programming

**ICT Project Management**  
Course List Find Your Desired Match

- Network Developement
- Server Infrastructure
- ICT basic skills
- General ICT Foundation
- time Management
- Corporate Culture

**Available Courses**

**UI/UX & Graphics Design**  
-By Rafid Mehdi Bhuiyan

**Mobile App development**  
-By Rokibul Islam Chowdhury

**ICT Project Management**  
-By Farhan Islam Khan

**View More**

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 lorem ipsum 3  
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 lorem ipsum 5

## Participant Skill Assessment page :

The screenshot shows the participant skill assessment section of the BRAC Online Career Hub. At the top, there is a navigation bar with links for 'Course history', 'Achievements', 'Wishlists', 'My Courses' (which is highlighted in pink), and user profile icons for 'ENG বাংলা' and 'Logout'. Below the navigation bar, there is a search bar with the placeholder 'What are you looking for?' and a magnifying glass icon. To the left of the search bar is the 'brac' logo and a 'HOME' link.

The main content area features two large rectangular boxes. The left box is titled 'Initial Assessment' and contains the sub-instruction 'Check & Participate in your assessment for progress' followed by a pink 'Start Now' button. The right box is titled 'Regular Assessment' and also contains the same sub-instruction followed by a pink 'Explore now' button.

At the bottom of the page, there is a footer section for 'Career Hub' with the subtext 'Online Career Platform'. It includes contact information: 'BRAC centre, 75,mohakhali', 'Tel:+8802-222281265', and 'E-mail: info@brac.net'. There is also a 'Join the Conversation' section with social media icons for Facebook, Twitter, Google+, and LinkedIn. The footer also contains links for 'About Us', 'Lorem Ipsum', and 'Lorem Ipsum' repeated three times, along with a copyright notice: '© 2020 All Rights Reserved. BRAC Online Career Hub Ltd.' and links for 'Terms & conditions | site map | Privacy policy | Cookie policy'.

## Participant Wishlist page :

The screenshot shows the 'My Wishlist' section of the participant's dashboard. It displays three course cards:

- UI/UX & Graphics Design** - By Rafid Mehedi Bhuiyan
- Mobile App development** - By Rokibul Islam Chowdhury
- Marketing strategies** - By Farhan Islam Khan

Each card includes a 'View Details' button. Below the cards, there is a footer section with links to 'Career Hub' (Online Career Platform), 'About Us', and other site navigation.

## Participant My Course page :

The screenshot shows the 'My Courses' section of the participant's dashboard. It displays three course cards:

- UI/UX & Graphics Design** - By Rafid Mehedi Bhuiyan (75% Completed)
- Mobile Apps Development** - By Rokibul Islam Chowdhury (50% Completed)
- Marketing Strategies** - By Farhan Islam Khan (25% Completed)

Each card includes a 'Start Training' button. Below the cards, there is a footer section with links to 'Career Hub' (Online Career Platform), 'About Us', and other site navigation.

## **Participant Enrolled Course Learning Details Page :**

The screenshot shows the course page for 'UI/UX & Graphics Design' by Rafid Mehedi Bhuiyan. The page includes a progress bar, course content sections for Day 01 through Day 04, and an evaluation survey assessment. The footer features a career hub section with links to various resources.

**UI/UX & Graphics Design**  
By Rafid Mehedi Bhuiyan

Learn how to design interface and graphics & complete this training with some practical projects.

Start Day 01 Day 02 Day 03 Day 04 Day 05 Course Complete

**Course content** Discussion Forum Grades Notes

**Day 01** 03 December, 2020 (Sunday)

**Topic**: How to become a Professional UX Designer

**Schedule**: Time: 12:00 - 02:30 PM (Live Class Session)

**Assignment**: Topic: Color Psychology Phase 02 (Due Date: 15 March, 2020)

**Quiz**: Type: Descriptive (Total Marks: 100 Marks - 1 hour)  
Result: Null (Pending)

**Additional Task**: Topic: Quiz Improvement Task (Due Date: 25 March, 2020)  
Sample File Output  
Sample File Output

**Resources**: How to become UX Professionals in a telecommunication.mp4  
Create a UX Design Portfolio & Journey Mapping.pdf  
Design Phase 01.docx

**Day 02** 04 December, 2020 (Sunday)

**Topic**: How to become a Adobe XD Pro User

**Schedule**: Time: 12:00 - 02:30 PM (Live Class Session)

**Quiz**: Type: MCQ (Total 50 Marks - 1 hour)  
Result: 48 (Passed)

**Day 03** 05 December, 2020 (Monday)

**Day 04** 06 December, 2020 (Tuesday)

**Evaluation Survey Assessment**

**Course Evaluation**  
Please complete this course evaluation

01. The amount of effort you put into this course was:  
 Excellent  
 Very Good  
 Good  
 Fair  
 Poor  
 Very Poor

02. On average, how many hours a week did you spend on this course (including class time)?  
 0-2  
 2-5  
 6-10  
 11-14  
 15 Up

03. What grade do you expect in this course?  
 A (80 - 100)  
 C (70 - 79)  
 B (60 - 89)  
 D (60 - 69)

04. Is there any other feedback you'd like to give on this training?

Please write your feedback here

RESULT SUBMIT

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**Lorum Ipsum**  
Lorum ipsum 1  
Lorum ipsum 2  
Lorum ipsum 3  
Lorum ipsum 4  
Lorum ipsum 5

**Lorum Ipsum**  
Lorum ipsum 1  
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**Lorum Ipsum**  
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Lorum ipsum 3  
Lorum ipsum 4  
Lorum ipsum 5

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## Participant Enroll Alert :

The screenshot shows a course enrollment confirmation dialog box. At the top, it displays the course title "User Experience Design" and the start date "Start From 02 February, 2021". Below that, the word "Charge : FREE" is shown. A message asks, "Are you sure you want to enroll in this course ?" with "Cancel" and "ENROLL" buttons. To the left, there's a sidebar titled "What you will learn" listing various skills like becoming a UI designer, learning website design, and working with fonts. On the right, there's a thumbnail image of a person working on a laptop.

## Participant View Assessment Result :

The screenshot shows an assessment result page. At the top, it says "15 / 40" and "Total Scored". Below that, a green "Thank You!" message is displayed. A note below states, "Based on Your result You are awarded with your improvement plan. Please Explore now to check your improvement plan." An "Improve Now" button is present. At the bottom, there are five columns with placeholder text: "Career Hub", "About Us", "Lorem Ipsum", "Lorem Ipsum", and "Lorem Ipsum". The "About Us" column lists links to "About Career Hub", "Global Partners", "Privacy Policy", "Feedback", and "Contact Us". The "Footer" section includes social media icons for Facebook, Twitter, Google+, and LinkedIn, along with copyright and privacy information.

## Admin View User Management Page :

The screenshot shows the 'User Management' section of the BRAC Online Career Hub. At the top, there are navigation links for User Management, Role Management, Category Management, Vault Management, Training Management, Assessment Module, and Logout. Below this is a pink header bar with the text 'List of Improvement Plan'. The main content area is titled 'User Management' and contains a table titled 'All User Lists'. The table has columns for SL No., Full Name, Username / Pin, Email Address, Role, Status, and Action. The data shows six users: Maruf Khan, Farhan Islam, Sultana Chowdhury, Saiful Islam Khan, Jeshad Ahmed, and Rokibul Islam Khan. Each row has an 'Edit' button in the Action column. Below the table, it says 'Showing 1 to 6 of 30 entries' and there is a page navigation bar with buttons for 1, 2, 3, 4, and >. At the bottom, a copyright notice reads '© 2020 BRAC Career Hub. All copyrights are reserved™'.

| SL No. | Full Name          | Username / Pin | Email Address    | Role        | Status | Action |
|--------|--------------------|----------------|------------------|-------------|--------|--------|
| 01.    | Maruf Khan         | maruf_101      | sadmin@email.com | Admin       | Active |        |
| 02.    | Farhan Islam       | 1001           | sadmin@email.com | Trainer     | Active |        |
| 03.    | Sultana Chowdhury  | sultana_202    | sadmin@email.com | Participant | Active |        |
| 04.    | Saiful Islam Khan  | 1002           | user@email.com   | Admin       | Active |        |
| 05.    | Jeshad Ahmed       | Natasha Gambl  | user2@email.com  | Trainer     | Active |        |
| 06.    | Rokibul Islam Khan | mujahid_303    | user3@email.com  | Trainer     | Active |        |

## List of Improvement Plan page :

The screenshot shows the 'List of Improvement Plan' section of the BRAC Online Career Hub. At the top, there are navigation links for User Management, Role Management, Category Management, Vault Management, Training Management, Assessment Module, and Logout. Below this is a pink header bar with tabs for 'List of Improvement Plan' (which is selected), 'List of Skill', 'List of Source', and 'Time Extensions'. The main content area is titled 'Plan Assignment' and contains a table titled 'Improvement Plan Lists'. The table has columns for SL No., Experience Level, Required Improvement Level, and Action. The data shows six rows corresponding to the users listed above, each with a 'Select Plan' dropdown and an 'Update' button. At the bottom, a copyright notice reads '© 2020 BRAC Career Hub. All copyrights are reserved™'.

| SL No. | Experience Level | Required Improvement Level | Improvement Plan Lists | Action |
|--------|------------------|----------------------------|------------------------|--------|
| 01.    | Beginner         | Intensive                  | Select Plan            |        |
| 02.    | Beginner         | Moderate                   | Select Plan            |        |
| 03.    | Intermediate     | Intensive                  | Select Plan            |        |
| 04.    | Intermediate     | Moderate                   | Select Plan            |        |
| 05.    | Advanced         | Intensive                  | Select Plan            |        |
| 06.    | Advanced         | Moderate                   | Select Plan            |        |

## List of Skill Page :

**BRAC Online Career Hub**

- User Management
- Role Management
- Category Management
- Vault Management
- Training Management
- Assessment Module
- [Logout](#)

[List of Improvement Plan](#) [List of Skill](#) [List of Source](#) [Time Extension](#)

**Skill List**

[Add New](#)

| SL No. | Skill Name                 | Status   | Action               |
|--------|----------------------------|----------|----------------------|
| 01.    | Skill 1 (Logical Reason)   | Active   | <a href="#">Edit</a> |
| 02.    | Skill 2 (Digital Literacy) | Inactive | <a href="#">Edit</a> |
| 03.    | Skill 3 (Team Building)    | Inactive | <a href="#">Edit</a> |
| 04.    | Skill 4 (Communication)    | Active   | <a href="#">Edit</a> |
| 05.    | Skill 5 (Problem Solving)  | Inactive | <a href="#">Edit</a> |
| 06.    | Skill 6                    | Active   | <a href="#">Edit</a> |

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## List of Source :

**BRAC Online Career Hub**

- User Management
- Role Management
- Category Management
- Vault Management
- Training Management
- Assessment Module
- [Logout](#)

[List of Improvement Plan](#) [List of Skill](#) [List of Source](#) [Time Extension](#)

**Source List**

[Add New](#)

| SL No. | Source Name      | Status   | Action               |
|--------|------------------|----------|----------------------|
| 01.    | Coursera         | Active   | <a href="#">Edit</a> |
| 02.    | 10Minutes School | Inactive | <a href="#">Edit</a> |
| 03.    | Udemy            | Inactive | <a href="#">Edit</a> |
| 04.    | Linkedin         | Active   | <a href="#">Edit</a> |
| 05.    | Upskill BD       | Inactive | <a href="#">Edit</a> |
| 06.    | edX              | Active   | <a href="#">Edit</a> |

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## Create New Skill page :

The screenshot shows the 'Skill List' page of the BRAC Online Career Hub. A modal window titled 'Create New Skill' is open in the center. The modal contains fields for 'Enter Skill Name' (with 'Communication' typed in) and 'Status' (with 'Active' selected). At the bottom of the modal are 'Create' and 'Cancel' buttons. The background table lists six skills: Skill 1 (Logical Reasoning), Skill 2 (Digital Literacy), Skill 3 (Team Building), Skill 4 (Communication), Skill 5 (Problem Solving), and Skill 6. The table includes columns for SL No., Skill Name, Status (Inactive or Active), and Action (Edit button).

| SL No. | Skill Name                 | Status   | Action                              |
|--------|----------------------------|----------|-------------------------------------|
| 01.    | Skill 1 (Logical Reason)   |          | <input type="button" value="Edit"/> |
| 02.    | Skill 2 (Digital Literacy) |          | <input type="button" value="Edit"/> |
| 03.    | Skill 3 (Team Building)    |          | <input type="button" value="Edit"/> |
| 04.    | Skill 4 (Communication)    |          | <input type="button" value="Edit"/> |
| 05.    | Skill 5 (Problem Solving)  | Inactive | <input type="button" value="Edit"/> |
| 06.    | Skill 6                    | Active   | <input type="button" value="Edit"/> |

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## Create New Source page :

The screenshot shows the 'Source List' page of the BRAC Online Career Hub. A modal window titled 'Create New Source' is open in the center. The modal contains fields for 'Enter Source Name' (with 'Coursera' typed in) and 'Status' (with 'Active' selected). At the bottom of the modal are 'Create' and 'Cancel' buttons. The background table lists six sources: Coursera, 10Minutes School, Udemy, LinkedIn, Upskill BD, and edX. The table includes columns for SL No., Source Name, Status (Inactive or Active), and Action (Edit button).

| SL No. | Source Name      | Status   | Action                              |
|--------|------------------|----------|-------------------------------------|
| 01.    | Coursera         |          | <input type="button" value="Edit"/> |
| 02.    | 10Minutes School |          | <input type="button" value="Edit"/> |
| 03.    | Udemy            |          | <input type="button" value="Edit"/> |
| 04.    | LinkedIn         |          | <input type="button" value="Edit"/> |
| 05.    | Upskill BD       | Inactive | <input type="button" value="Edit"/> |
| 06.    | edX              | Active   | <input type="button" value="Edit"/> |

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### 5.4.3 Architecture:

For development of our project we will use Larabel with React.js and a powerful Javascript library. Laravel reuses the existing components of different frameworks which will help us in creating a web application. Laravel is a modern web application framework based on the MVC architecture. It's a software architecture standard that separates how data is represented by how users interact with it. In this model there is a method for inserting, retrieving and updating data from the database. For creating the view which contains the data that is displayed to the user we will use React.js. In order to handle HTTP requests and create a web page, the controller connects the model and view. This controller will be responsible for handling the entire request from the client and will tell the rest of the server what to do with the request. The controller receives all requests and passes them along to the model and view. Controller acts as a middleman between model and view. When someone visits a website they can view the information. Any interactions between the model and the view will be done through the controller. The controller will get the request from the User and will act as a mediator between the model and the view.

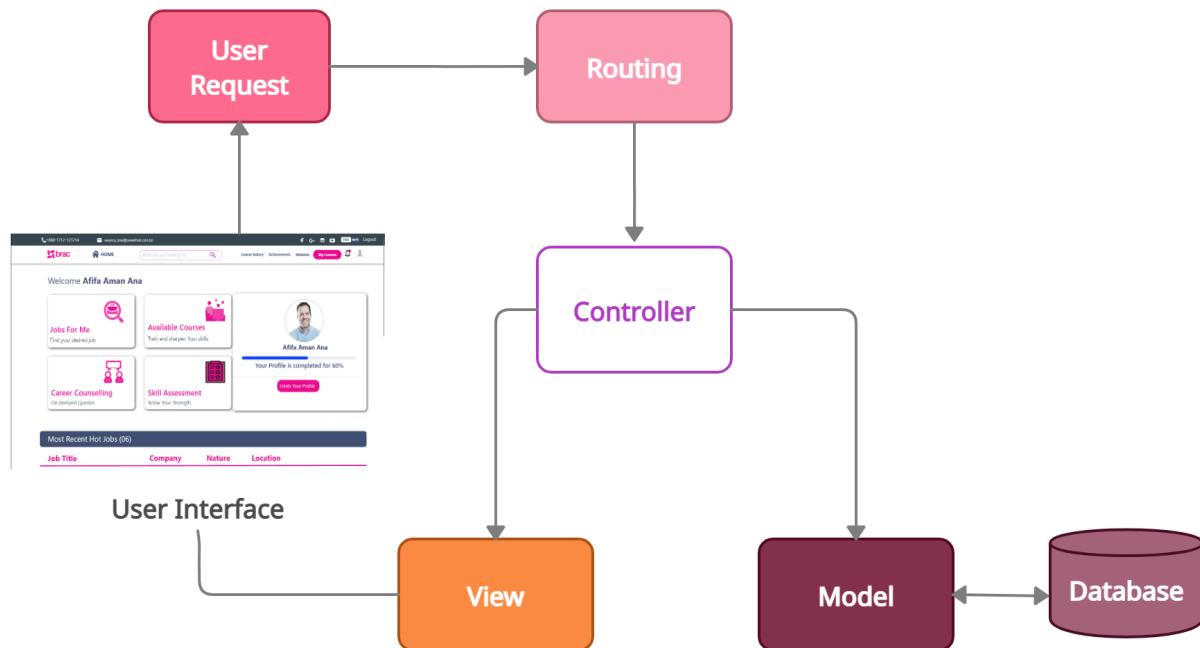


Figure : System Architecture

# **Chapter 6 (Results and Analysis)**

# Available Course Page:

The purpose of this assessment module is to assess whether the learners' skills level are up to the mark to pursue certain job opportunities. Here in this picture we can see how participants can view their available course when they will login as a participant. This page is called the participant dashboard page. Participants can choose their interesting course from here and can know the details about that course so that they can decide about which course they want to learn. Which is mentioned in our functional requirements.

The screenshot shows the participant dashboard of the BRAC Online Career Hub. At the top, there is a navigation bar with links for 'Course history', 'Achievements', 'Wishlists', 'My Courses' (which is highlighted in pink), and a user profile icon. Below the navigation bar, a welcome message 'Welcome Afifa Aman Ana' is displayed. The main content area features five cards: 'Jobs For Me' (Find your desired job), 'Available Courses' (Train and sharpen Your skills), 'Afifa Aman Ana' (Profile completion status: 60%, with a 'Finish Your Profile' button), 'Career Counselling' (On demand Queries), and 'Skill Assessment' (Know Your Strength). Below this, a section titled 'Most Recent Hot Jobs (06)' lists six job postings with columns for Job Title, Company, Nature, Location, and an 'Apply Now' button. The jobs listed are: Front-End Developer at Steel Times, Web-Analyst at Brac, Senior Motion Graphics Design at I.K Properites, Marketing Manager at Plan International, Supply Chain Director at AjkerDeal.com, and Cardiac Specialist at Labaid Hospital. At the bottom, there is a footer section with links for 'Career Hub' (Online Career Platform), 'About Us', and three columns of 'Lorem Ipsum' placeholder text. Social media icons for Facebook, Twitter, Google+, and LinkedIn are also present. The footer also includes copyright information: '© 2020 All Rights Reserved. BRAC Online Career Hub Ltd.' and links for 'Terms & conditions | site map | Privacy policy | Cookie policy'.

| Job Title                     | Company            | Nature      | Location           | Action    |
|-------------------------------|--------------------|-------------|--------------------|-----------|
| Front-End Developer           | Steel Times        | Part-Time   | Banani,11,Dhaka    | Apply Now |
| Web-Analyst                   | Brac               | Full-Time   | Gazipur,Dhaka      | Apply Now |
| Senior Motion Graphics Design | I.K Properites     | Contractual | Gulshan,02,Dhaka   | Apply Now |
| Marketing Manager             | Plan International | Full-Time   | 75,Mohakhali,Dhaka | Apply Now |
| Supply Chain Director         | AjkerDeal.com      | Full-Time   | North-Badda,Dhaka  | Apply Now |
| Cardiac Specialist            | Labaid Hospital    | Full-Time   | 75,Mohakhali,Dhaka | Apply Now |

# Learning Course Page:

This is the page where participants can see their course learning plan and will be known about their day wise learning details. Participant course plan, necessary course materials and course training details this participant will be able to know and will be able to view from this page.

The screenshot shows a detailed learning course page for a UI/UX & Graphics Design course. The course is taught by Rafid Mehedi Bhuiyan. The page is divided into several sections:

- Course Overview:** Title: UI/UX & Graphics Design, Author: By Rafid Mehedi Bhuiyan. Description: Learn how to design interface and graphics & complete this training with some practical projects.
- Timeline:** A horizontal timeline at the top shows the progress from 'Start' to 'Complete' through 'Day 01', 'Day 02', 'Day 03', and 'Day 04'.
- Day 01:** Topic: How to become a Professional UX Designer. Schedule: Time: 12:00 - 02:30 PM (Live Class Session). Assignment: Topic: Color Psychology Phase 02 (Due Date: 05 March, 2020). Quiz: Type: Descriptive (Total Marks: 1 - Hour). Result: Null (Pending). Additional Task: Topic: Quiz Improvement Task (Due Date: 05 December, 2020). Resources: How to become UX Professionals in a telecommunication.mpt, Create a UX Design Portfolio & Journey Mapping.pdf, Design Phase 01.xlsx.
- Day 02:** Topic: How to become a Adobe XD Pro User. Schedule: Time: 12:00 - 02:30 PM (Live Class Session). Quiz: Type: MCQ (Total 10 Marks + 1 hour). Result: 45 (Pending).
- Day 03:** Topic: (No specific topic listed)
- Day 04:** Topic: (No specific topic listed)
- Evaluation Survey Assessment:** A section for course evaluation with questions like "01. The amount of effort you put into this course was:" (radio buttons for Excellent, Very Good, Good, Fair, Poor, Very Poor) and "02. On average, how many hours a week did you spend on this course (excluding class time)" (radio buttons for 0-2, 2-5, 6-10, 11-14, 15 Up).
- Course Evaluation:** A section for participants to provide feedback with a text input field and 'RESET' and 'SUBMIT' buttons.
- Footer:** Includes links to 'Career Hub', 'About Us', and social media icons for Facebook, Twitter, LinkedIn, and YouTube.

# Attend Skill Assessment Page:

From our functional requirements we can see that this page is designed for attending skill assessment. In this page participants will be able to attend their assessment test based on what they learn from their course. Within an exact time they must finish this test. These functional requirements were regarded when creating this page of the course, which can be found here.

The screenshot shows a web-based skill assessment interface. At the top, there are navigation links for phone number (+880-1712-121214), email (vacancy\_brac@careerhub.com.bd), social media (Facebook, Google+, YouTube), language selection (ENG বাংলা), and logout. The main title is "Regular Assessment" with a subtitle "Check & Participate in your assessment for progress". A "Back" button is visible. Below this, a timer displays "TIME LEFT" and "0 Hours 1 Minutes 40 Seconds".

**QUESTION: 01**  
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever ?

Lorem Ipsum is simply dummy text of the printing  
 Lorem Ipsum is simply dummy text of the printing  
 Lorem Ipsum is simply dummy text of the printing  
 Lorem Ipsum is simply dummy text of the printing

**QUESTION: 02**  
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever ?

Lorem Ipsum is simply dummy text of the printing  
 Lorem Ipsum is simply dummy text of the printing  
 Lorem Ipsum is simply dummy text of the printing  
 Lorem Ipsum is simply dummy text of the printing

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### Lorem Ipsum

lorem ipsum 1  
lorem ipsum 2  
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### Lorem Ipsum

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### Lorem Ipsum

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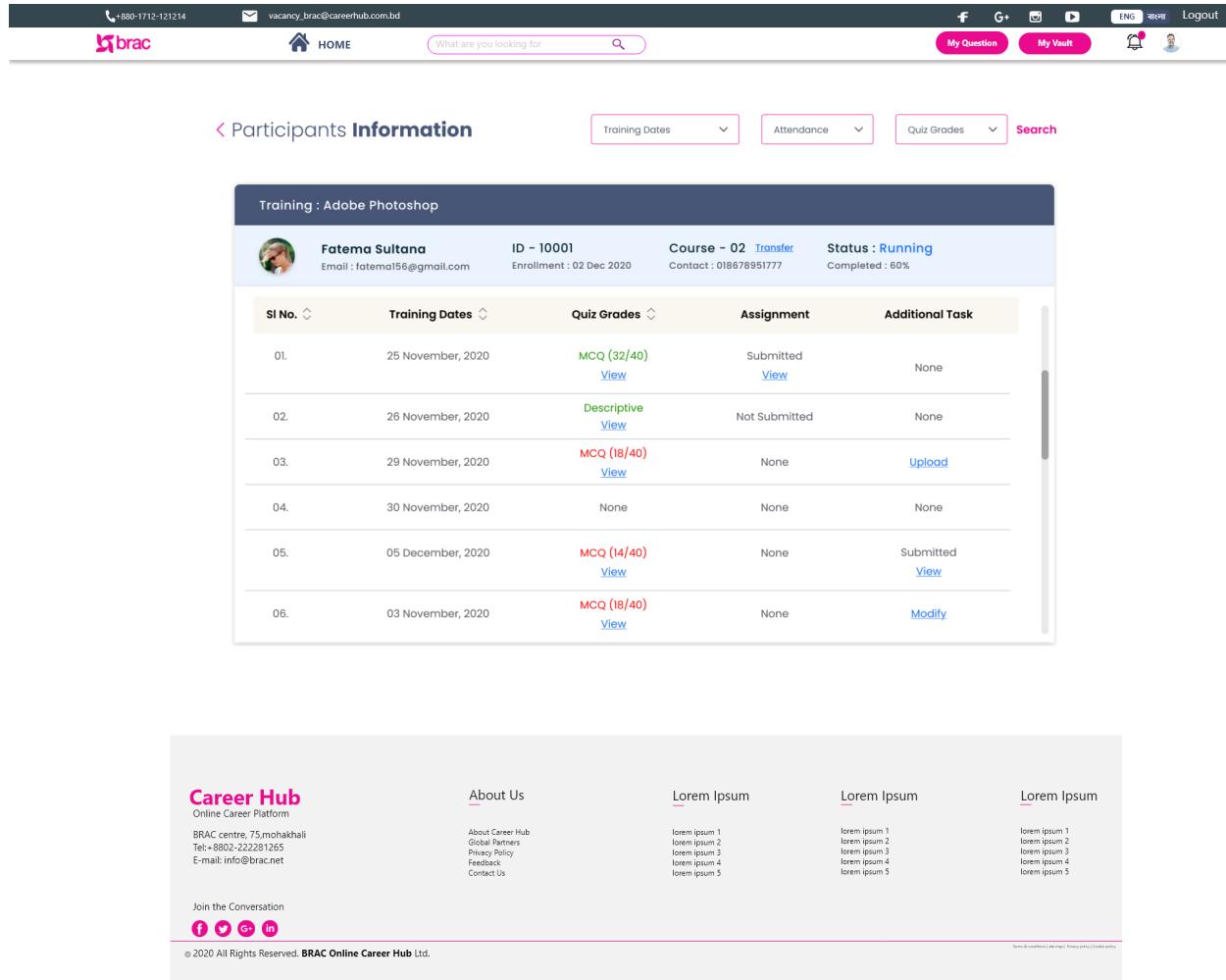
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# Participant Information Page:

This is the page from where the trainer will be able to view the participant assessments details. Which participants submit their test form and how many marks they get and when participants perform these test all can view trainer from this page as per our functional requirements.



The screenshot shows a web interface for managing participant information. At the top, there's a header with contact info (+880-1712-121214), a mail icon (vacancy\_brac@careehub.com.bd), social media links (Facebook, Google+, Email, YouTube), language selection (ENG, বাংলা), and a Logout button. Below the header is a navigation bar with a home icon, 'HOME', a search bar ('What are you looking for?'), and buttons for 'My Question' and 'My Vault'. A bell icon with a notification count of 1 is also present.

The main content area is titled 'Participants Information' with a back arrow. It features three dropdown filters: 'Training Dates', 'Attendance', and 'Quiz Grades', each with a 'Search' button. The main table displays training details for 'Adobe Photoshop' with one participant, Fatema Sultana, listed. The table columns are 'SI No.', 'Training Dates', 'Quiz Grades', 'Assignment', and 'Additional Task'. Each row contains a participant's name, date, grade (e.g., MCQ (32/40) or Descriptive View), assignment status (Submitted, Not Submitted, None), and task status (None, Upload, View). The table has a light blue header and white rows.

At the bottom of the page is a footer with sections for 'Career Hub' (Online Career Platform, address: BRAC centre, 75 mohakhalii, Tel: +8802-222231265, E-mail: info@brac.net), 'About Us' (links to About Center Hub, Global Partners, Privacy Policy, Feedback, Contact Us), and three placeholder sections labeled 'Lorem Ipsum' (each containing five lorem ipsum lines).

# Create Improvement plan:

As per our functional requirements we can see that this is the page from where the trainer can create a new improvement plan for participants. For participant improvement trainers can create a full schedule of resources here in this and can save all the improvement plan data here.

The screenshot shows the 'Create New Plan' form on the BRAC Online Career Hub website. The top navigation bar includes links for 880-1712-121214, vacancy\_brac@careerhub.com.bd, Home, What are you looking for? (with a search icon), My Question, My Vault, Logout, ENG বাংলা, and a user profile icon.

The main form has the following sections:

- Improvement Plan Title:** Improving Communication Skills
- Experience Level:** Medium
- Required Improvement Plan:** Intensive
- Timeline (Days):** 10

**Resources & Scheduling:**

- Load Files From Here:** A section for selecting files from the vault. It shows a tree view of categories (Design, Business, Accounting, Production) and sub-categories (Design). Under 'Select File', three files are listed: 'Resource\_21.docx', 'Assignment Task 01.pdf', and 'Adobe Photoshop 01.mp4'. These files are also listed under 'Selected Files'.
- Resources:** A section for adding relevant skills, sources, and source types.
  - Relevant Skill:** Communication
  - Source:** Coursera
  - Source Type:** Web Link
  - Web Link:** <https://www.coursera.org/learn/wharton-communication-skills>
- Resource:** A section for adding sample files.
  - Relevant Skill:** Communication
  - Source Type:** Content
  - Resource:** Three sample files listed: Sample File 01.pdf, Sample File 02.docx, and Sample File 03.pdf.

At the bottom of the form are 'CLOSE' and 'SAVE' buttons.

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E-mail: info@bracnet

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# View Achievement Result Page:

This is the page where participants can view the assessment result. After attending an assessment test participant and submitting that test page when participant will click the submit button this assessment result page will be visible to the participant as written in our functional requirements.

The screenshot shows the 'Assessment Result' page. At the top, there's a header bar with contact information (+880-1712-121214, vacancy\_brac@careerhub.com.bd), social media links (Facebook, Google+, YouTube, LinkedIn), language selection (ENG BAN), and a 'Logout' button. Below the header is a navigation bar with the 'brac' logo, a 'HOME' link, a search bar containing 'What are you looking for?' with a magnifying glass icon, and links for 'Course history', 'Achievements', 'Wishlists', 'My Courses' (highlighted in pink), a notification bell, and a user profile icon.

The main content area has a light gray background. It displays the text '25 / 40' in pink, 'Total Scored' in bold black, and 'Thank You!' in green. Below this, a message says 'Based on Your result You are now competent for our career hub journey. Explore and continue your progress.' A pink-bordered button labeled 'View Achievements' is centered at the bottom of this section.

At the bottom of the page, there's a footer section for 'Career Hub'. It includes the 'Career Hub' logo and 'Online Career Platform' text, followed by contact details: 'BRAC centre, 75,mohakhali', 'Tel:+8802-222281265', and 'E-mail: info@brac.net'. To the right of these details are four columns of placeholder text ('Lorem ipsum') and social media icons for Facebook, Twitter, Google+, and LinkedIn. The footer also contains copyright information: '© 2020 All Rights Reserved. BRAC Online Career Hub Ltd.' and links for 'Terms & conditions | site map | Privacy policy | Cookie policy'.

# Participant Wishlist Page:

From our functional requirement we can see that this is the page where participants can enroll for their interesting course. The details about the course will be shown in this page which course participants will choose for enrollment. After viewing all the details about the course, participants can enroll on the course.

The screenshot displays a participant wishlist page for a course titled "User Experience designs".

**Course Details:**

- Offered by brac
- Learn how to design interface and graphics & complete this course with some practical projects.
- Rating: ★★★★☆ (4.1 ratings) - Only 02 seats are available
- Wishlist button
- Preview Course image showing hands working on a design project.
- FREE status and 02 days left.
- Enroll Now button.

**What you will learn:**

- Become a Professional UX designer
- You will be create UX portfolio
- Become a UI designer
- Build & test a full website design
- Work with fonts and colors
- Test on mobile phones
- Create UX brief & persona
- How to use premade UI kits
- Build a UX project from start to end
- Build & test a full mobile app
- Learn to design website and mobile apps
- Prototype your design with interactions
- Export production ready assets
- Create quick wireframes
- Learn professional work flow tricks
- How to create realistic micro interactions

**Requirements:**

- You will need a copy of Adobe XD 2019 or above versions. A free trial can be downloaded
- No previous design experience is required
- No previous Adobe XD skills are needed

**Who this course is for:**

- Anyone who wants to start using Adobe XD in their career for their experience design skills
- This course is for beginners, newbies & amateurs in the field of UX design
- Aimed at people new to the world of design & user experience
- For anyone that needs to add 'UX Design' to their portfolio

**Career Hub**  
Online Career Platform

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# Skill List Page:

Admin can create skills for participants. Once after creating a skill admin also can edit that plan or can add a new skill also. As per our functional requirements this page will be visible for admin. Admin will be able to create skills for participants from this page.

| SL No. | Skill Name                 | Status   | Action                                 |
|--------|----------------------------|----------|--|
| 01.    | Skill 1 (Logical Reason)   | Active   | <input checked="" type="button"/> Edit |
| 02.    | Skill 2 (Digital Literacy) | Inactive | <input checked="" type="button"/> Edit |
| 03.    | Skill 3 (Team Building)    | Inactive | <input checked="" type="button"/> Edit |
| 04.    | Skill 4 (Communication)    | Active   | <input checked="" type="button"/> Edit |
| 05.    | Skill 5 (Problem Solving)  | Inactive | <input checked="" type="button"/> Edit |
| 06.    | Skill 6                    | Active   | <input checked="" type="button"/> Edit |

# View Certificate Page:

After fulfilling all curriculum activities participants can view their certificate. After completing a course, participants need a certificate to find a job because this certificate will prove that the candidate is suitable or not for the job. Participant grade and some important information about participants will be here in this certificate.

This is to certify that,  
**SONIA SARWAR**  
has successfully completed the training from **Career Hub** on  
**BUSINESS COMMUNICATION**

Tasminul Tabassum Rahman  
Head of Strategy and Business Development  
(Current in charge)  
BRAC Skills Development Programme

Piyushdeep Sardana Roy  
Head of Operations (Current in charge)  
BRAC Skills Development Programme

**Career Hub**  
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# **Chapter 7 (Project as Engineering Problem Analysis)**

## **7.1 Sustainability of the Project/Work:**

In today's world, project sustainability is more essential than ever. Project sustainability involves both individual and organisational responsibility to ensure that outputs, outcomes and benefits are sustainable over life cycles and during their creation, disposal and decommissioning. In the project profession, sustainability is a business approach that balances the environmental, social, and economic components of project-based work to meet present stakeholder needs without jeopardizing or overburdening future generations. This project we are working on fact of this project is based on that because of Covid-19 Pandemic the number of unemployment is creasing very fast day by day in our country. There are so many reasons for this high unemployment rate but because of this Covid-19 Pandemic situation nowadays some of the main reasons for this sharp increase in youth unemployment are, restrictions in the new recruitment, sudden job loss and so on. The mission and the main objective of our project is to give a platform to our youth where the learners can gain employability skills online to ultimately get employment. And The end goal of this platform is to provide its learners necessary skills to get job opportunities/entrepreneurship support within the platform. So that learners after their skill training, they also can get their desired job from this platform. So through this platform learners will learn the right manner on a market competent course and employers would also be able to collaborate at a hub where they would be able to choose their likely employees. And this platform will provide learners free skill training from a skilled trainer.

## **7.2 Social and Environmental Effects and Analysis:**

The COVID 19 outbreak has had an incredible impact on human life in this period of science and technological advancement. It has had a negative impact on the economy and business activities. In our country the unemployment rate is very high because of a lack of skilled employees but this COVID-19 pandemic situation added a new increasing number of unemployment. Nearly 25 million of the global population are anticipated to lose their jobs due to the COVID-19 crisis, according to the recent report of the International Labour Organization (ILO). So to overcome

this unemployment situation BRAC has been proposing a platform which is BRAC Online Career Hub. Through this platform BRAC wants to give chances to people so that they can get skill training and also can get their desired job. BRAC will provide this training free of cost so that candidates can get all the facilities without spending a lot of money. BRAC Online Career Hub is a platform whose purpose is to empower youth via skill development and good employment. Through this platform candidates will get job opportunities also with skill development training for free of cost. And furthermore, this platform will have a significant societal influence in our country.

## **7.2.3 Addressing Ethics and Ethical Issues:**

People around the world have got a different set of ethics. Problems might arise when one's ethics are pointed wrong by others which may cause some kind of unwanted uneasiness. This is the generation where we're all surrounded by gadgets smartphones laptops computers many more and with all these gadgets comes many other ethical situation like securities as now we're in a time of smartphones and computers there is a huge chance of data bridge so when we are developing something any web application or a website or software we have to think of the security first ,security of the data, security of the user, security of the application so that it cannot be hacked or accessed by any outsider who have no permission to do so here we follow some ethics like we only collect the data that is required ,we don't sell the data to any other parties or any other companies we improve our securities to store data in our servers so that cannot be accessed by others and secure application that the user can trust and use without any hesitation so here in the project of BRAC Online Career Hub we have collected the data of the user and it is stored and is used only but the purpose of the application and purpose of its development end as I've already mentioned the user data securities we tried our best and we have followed every step to keep the user data safe and not let any other user or any third party user to get access into our database only users has the access to the database is the career hub developers.

# **Chapter 8 ( Lesson Learned)**

## **8.1 Problems Faced During this Period:**

During my Internship period at BRAC IT Technology, there were many problems that we had to go through. The first was the Covid19 period which made it risky to travel to work. We had to do work from home during the lockdown period. When doing work from home, interactions with seniors and colleagues became a little difficult and many faced network problems and issues while doing google meet meetings and discussions. While we was working on this project we faced many problems but few were very hard among them are graphs for this required for the project when we were briefed about the project it took me quite some time to understand the requirements as it was my first practical infield project so it took me some time to understand the requirements then as we worked with new technologies it took me some time to get comfortable with the talk technologies with the software's one thing we faced while coding was fixing the bugs will we be able to fixing the bugs correctly taking it debugging it and one more thing we faced was about the securities like we really implanting the securities correctly or not an eye with our performance of the application is according to the requirement or not so this was the problems we faced during my project time.

## **8.2 Solution of those Problems:**

While i doing this project i faced a lot of but the challenge was how to resolve them.when problems like understanding occurs i used to take notes and used to question to our superior who briefed us about the project and i cleared our doubts,problem, 4 bugs and other technical issues is to debug it i used to test the application several times to see for the bugs and resolve the problems then about the security we used to talk with our securities exports that are our securities up to the mark about the performance and speed issue i used to run and test the application several times and check its performance that is it OK with the requirement is it up to the mark or not so this were few of the problems that i mainly faced and i had solved them with a positive attitude. Working with a professional and very fast team in the real world field, it was very challenging for me but anyhow after giving a lot of time and hard work I managed to improve myself. For creating the SRS (Software Requirements Specification) for our project we were given TOR ( Terms of Reference). I just read that TOR again and again which helps me a lot and guides me to create SRS in a proper way. I learn a lot technology while i was doing this project like for designing Prototype i learn about Adobe XD. To understand the development part I learned about React.Js and Redux.

# **Chapter 9 (Future Work & Conclusion)**

## **9.1 Future Works:**

Here are some future work for this website -

As we all know if we don't add features to our new applications it might not stay on the market for a long time so by adding new features and new services we'll make our project BRAC Online Career Hub a long term project. Therefore the future plans for this project we will be to add mobile app which will help the user not only to use the application from website but also within mobile app, we will add a chat support that will help the users to connect with our customer service anytime than last but not the least we will add ID recognition system which will make the user to register themselves to the website or to any courses with the help of their mobile application without making them visit physically our office.

## **9.2 Conclusion:**

When I started working as an Intern in BRAC IT Technology, I had some basic ideas, but the professional sector is completely unique and different. I also had no clue where to start. It is all about dedication and passion so I start asking questions to the senior, sit beside them to see what they are doing . I have come to learn and know many new unknown things. I have achieved so many new skills and knowledge. It made me understand that professional practice is important. About this website in this report I wrote about how it works, Background, advantage, outcome, technique utilised, etc. This project will be consists of front-end (Ui design, Web design, html, css, scss, js, TypeScript, React.js) and for the back-end part we will use Laravel 8. During my internship period I worked on the Assessment Module (Phase 2) of BRAC Online Career Hub project. For this Assessment module I design a prototype and based on that I create an SRS. The purpose of this assessment module is to assess whether the learners' skills level are up to the mark to pursue certain job opportunities. When the learner enters the platform, he/she will be asked to enter his desired profession, based on that they will be offered a skills assessment test and these test questions will be sorted and developed by a dedicated pool of researchers. If learners earned qualified marks then they will be given suggestions of available jobs sorted by the job engine. And if he fails then he will be directed to the Training hub with the suggestion of particular skills training. This internship was very successful for me. After working on BRAC IT Technology I have gained new knowledge, skills, and met so many new people. I got insight into professional practice. The demand for practical work experience has no other alternative in today's job market. An internship is a great opportunity to achieve this experience.

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