**1. INTRODUCTION**

**1.1 ABOUT THE ORGANISATION:**

**Alpha Business Solutions** (ABS), a company was formed in 2005. A 17-Year-old company providing multiple software services to clients. In 2017 two fresh minds joined hands together and Rebooted ABS.

Our mission is to help customers achieve their business objectives by providing innovative, best-in-class consulting, IT solutions and services. We function as an IT partner to business, offering a consulting – plan – implementation approach with an integrated portfolio of technology IT solutions that encompass the entire Enterprise value chain.

Now ABS is serving the client's around the globe by providing multiple services in SAAS.

**1.1.1 VISION**

We Help Businesses Increase Their Bottom Line with Us

**1.1.2 MISSION**

**Build contextual AI assistants that really help customers.**

**1.1.3 ALPHA BUSINESS SOLUTION PRESENCES:**

**TIRUNELVELI**

## 10 F2 Second Floor,

## Trivandrum Road,

## Tirunelveli - 627003

## Tamil Nadu

Website:

Email: abs.nellai@gmail.com

## 1.2 ORGANIZATIONAL STRUCTURE

## The Organization is built with six major departments, these are

1. Senior Architects
2. Project Manager
3. Project leaders
4. Marketing Department
5. Testing Department
6. Automation team

**1.2.1 Senior Architects**

Senior Architects Are Architects with extensive industry experience. They develop and interpret a range of structural designs and also act as mentors, managers, and advisors. They typically work in offices and onsite, ensuring the cohesion of their team, and overall project success.

A Senior Architect performs design drafting and evaluates architectural or engineering plans regarding building construction or improvement projects. They review building plans and site design for aesthetics, environmental acceptability, and compliance with quality standards.

**1.2.2 Project Manager**

A Project Manager is responsible for planning, overseeing and leading projects from ideation through to completion. This is a senior role at an organisation and requires interaction with a range of internal and external stakeholders, most often managing several moving project parts simultaneously.

In the broadest sense,  (PMs) are responsible for planning, organizing, and directing the completion of specific projects for an organization while ensuring these projects are on time project managers , on budget, and within scope

Five stages of project management developed by the Project Management Institute (PMI), the five phases of project management include conception and initiation, planning, execution, performance/monitoring, and project close.

**1.2.3 Project leaders**

Project leaders manage the team dynamics throughout the projects. They ensure the focus of the team on project deliverable. They are responsible for setting the expectations for their team members. They are responsible to set the direction for their team during project work

Project team members are the individuals who actively work on one or more phases of the project.

Project team member duties include:

* + Contributing to overall **project** objectives.
* Completing individual deliverables.
* Providing expertise.
* Working with users to establish and meet business needs.
* Documenting the process.

**Tools:** Many open sources like vs code, Android Studio, sublime etc.

**1.2.4 Marketing Department**

A marketing department promotes your business and drives sales of its products or services. It provides the necessary research to identify your target customers and other audiences. Depending on the company's hierarchical organization, a marketing director, manager or vice president of marketing might be at the helm.

The Marketing Department plays a vital role in promoting the business and mission of an organization. It is the Marketing Department's job to reach out to prospects, customers, investors and/or the community, while creating an overarching image that represents your company in a positive light.

**The Marketing Mix:** It is most commonly expressed in terms of 'the four Ps' of product, price, promotion and place. 'Place' in this context refers to all activities associated with distribution.

**Platforms:** Social media pages and google ads.

**1.2.5 Testing Department**

Software Testers are responsible for the quality of software development and deployment. They are involved in performing automated and manual tests to ensure the software created by developers is fit for purpose. Some of the duties include analysis of software, and systems, mitigate risk and prevent software issues.

**Responsibilities of a Testing Team:** Testers execute and log the tests, evaluate the results and document problems found. They monitor the testing and the test environment, often using tools for this task, and often gather performance metrics.

**System Testing**: System Testing is usually carried out by a team that is independent of the development team in order to measure the quality of the system unbiased. It includes both functional and Non-Functional testing.

**Tools:** Selenium, Testing Whiz, Ranorex

**1.2.6 Automation Team**

Automation team is a little different: They already know automation and they can become a great asset as they help their manual counterpart pick up automation. They already know manual testing (they have to do it prior to automating a test case). They tend to use automation to help with the actual testing.

They are domain experts who have intimate knowledge of the software being tested and of how to use the shared automation created by the base team. This is the team that writes the automation that helps the testers.

Designing and implementing both the physical and wireless networks, including those for computer communications and telecommunications. Maintaining network performance. Managing the electronic equipment that activates any network pieces. Troubleshooting network problems.

* Installing and configuring computer networks and systems.
* Identifying and solving any problems that arise with computer networks and systems.
* Consulting with clients to specify system requirements and design solutions.
* Budgeting for equipment and assembly costs.
* Assembling new systems.

## 2. SYSTEM SPECIFICATION

## 2.1 HARDWARE SPECIFICATION

Organization that have computers which satisfied the requirements of the developers, as followings

**Local Machines**

* + intel i7 processors or higher versions for improved performance.
  + 4 GB of Graphics Card to increase the UI / UX for enhance developers experience.
  + 2 TB of Secondary storage devices and minimum of 256 GB of SSD.
  + Raspberry and Arduino attached.
  + Network adapter for connecting in network.

**Virtual Machines**

* + Windows servers with 4 GB of servers, with the JS virtual supporter,
  + Connectivity for NoSQL Database.
  + Ubuntu servers along with 4GB & 8GB of servers that serves web application and websites with improved server services along with NGINX server service.
  + Internal Database Management Service for create a database management system for projects remote database management service.
  + Google cloud services. API services for Optimized for performance and Fast prototyping.

## 2.2 SOFTWARE SPECIFICATION AND DESCRIPTION

**Local Machines**

Developers systems that have the tools to develop the web applications those are,

* Developers are use improved Internet Development Environment tool for develop the websites / web applications / software like Microsoft Visual Code, Sublime, Node Package Manager ( npm ) , NoSQL connectors.

**Software Local machines in the organizations**

* **Angular Framework**

Angular is an app-design framework and development platform for creating efficient and sophisticated single-page apps.

* **Adobe Creative Cloud**

Adobe Creative Cloud is a set of applications and services from Adobe Systems that gives subscribers access to a collection of software used for graphic design, video editing, web development, photography, along with a set of mobile applications and also some optional cloud services. In Creative Cloud, a monthly or annual subscription service is delivered over the Internet. Software from Creative Cloud is downloaded from the Internet, installed directly on a local computer and used as long as the subscription remains valid.

* **Django**

Django is a Python-based free and open-source web framework that follows the model-template-views architectural pattern.

* **PyTorch**

PyTorch is an open source machine learning library based on the Torch library, used for applications such as computer vision and natural language

* **Kotlin**

Kotlin is a cross-platform, statically typed, general-purpose programming language with type inference. Kotlin is designed to interoperate fully with Java, and the JVM version of Kotlin's standard library depends on the Java Class Library, but type inference allows its syntax to be more concise

* **Node.js**

Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the Chrome V8 engine and executes JavaScript code outside a web browser.

* **Aws**

Amazon Web Services is a subsidiary of Amazon providing on-demand cloud computing platforms and APIs to individuals, companies, and governments, on a metered pay-as-you-go basis.

**4. TEAMS**

**3.1 VARIOUS TEAMS**

All the team members should work together to prepare a document that clearly defines the roles and responsibilities of all the team members. Once the document is prepared for the role of each member should be communicated clearly to everyone. Once the team members are clear about who is going to handle which area of the project, then in case of any issue it will be easy to determine who needs to be contacted.

Each member of the team should be provided with the necessary documents that provide information on how the task would be organized, what approach will be followed, how things are scheduled, how many hours have been allocated to each member and all details related to applicable standards and quality processes.

# **5. SCOPE FOR FUTURE ENHANCEMENT**

Alpha Business Solutions entered into Artificial Intelligence (AI) that is the simulation of human intelligence by machines. In other words, it is the method by which machines demonstrate certain aspects of human intelligence like learning, reasoning and self- correction. Since its inception, AI has demonstrated unprecedented growth

**6. CONCLUSION**

During this training period, a lot of experience, knowledge and exposure that I have handy. All disclosures were awakening myself in a boost of self-confidence to face life more challenging now. Practical is a complement to the science or theory learned. This is clearly the concept of science and charity, where they have learned without practice will be lost and will not give anything - what effect. So if we do without the knowledge of course there will be problems in terms of grip and stance ever - changing