
Institution Details

Province	Sindh	City	Karachi
Institution	National University of Computer and Emerging Sciences (FAST-NU)	Campus	Karachi
Department	Computer Science	Degree Level	BS
Degree Program	Computer Science	Telephone	
Fax			

Supervisor Details

Name	Engr. Abdul Rahman	Gender	Male
Mobile	+92-333-3195319	Office No	
Email	abdul.rehman@nu.edu.pk	Designation	Assistant Professor
Qualification	MS Computer Engineering (Specialization in Software Engineering)		

Co-Supervisor Details

Name	Zain UI Hassan	Gender	Male
Mobile		Office No	
Email	zain.hassan@nu.edu.pk	Designation	Lecturer
Qualification			

Head of Department Details

Name	Dr. Zulfiqar Memon	Mobile No.	-
Email	zulfiqar.memon@nu.edu.pk	Gender	Male

Project Details

Project Title	Ascension		
Group Details	Member 1 Name: Taha Aslam	Member 2 Name: Muhammad Areeb	Member 3 Name: Hunain Arif
	Member 1 Roll#: 19K-0147	Member 2 Roll#: 19K-0333	Member 3 Roll#: 19K-0299
Project Area of Specialization	Web, App Development / Software Engineering		
Project Start Date	23 rd August, 2022	Project End Date	x-June, 2023
Project Summary (less than 2500 characters)	<p>The biggest question in an investor's mind is where to invest? What different options does he have and to invest the right amount of money on right profit generating business. Unfortunately, there is no such platform until now where business owners can sell their running business and investors can buy a running, income generating business after going through some legal formalities and inspections. The goal is to provide a reliable and trustworthy platform, where authentic owners can flip their businesses and authentic investors can have reliable choices before investing their valuable money and time.</p>		
Project Objectives (less than 2500 characters)	<ul style="list-style-type: none"> • To providing the business owners, a trustworthy platform that allows them to sell their business within the legal boundaries. • To provide an interactive and easy way for business owners to list their respective business within least minimum requirement and iterative process. • To provide convenience to anyone with the intension of either investing their money in a safe place or taking over a running business. • To display the listing that is aligned with client's lifestyle and personality. • To make the whole process of ease, hectic free and uncomplicated. • To enable the users, receive a valuation report of the desired business using which user will get the idea of business worth. • To create a strategy to ensure our sellers follow our unique policies. This strategy will also help reveal any vulnerabilities, such as sellers offering illicit products through your platform. 		

Literature Review / Background Study	<p>[1] "Where do my skills lie?" Tom Brown liked to sit behind a desk figuring out electrical circuits; Gene Downing liked to deal with people. It may have come as a shock to Tom to learn that dealing with the public, every minute of every day, was not for him. An understanding of his basic likes and dislikes should have been the starting point, not the ultimate lesson he learned. [2] "Where do my interests lie?" Tom Brown didn't mind dealing with customers looking to buy electronic jacks and plugs, because he was interested in electronic equipment. He wasn't interested in rock music and could never warm up to dealing with it or the customers who were. It's very difficult, perhaps impossible, to succeed at something you're not interested in and aren't naturally comfortable with. [3] "Is my lifestyle suited to this type of business?" Even if you've a natural feel for a certain type of business, it still may not be for you. The business may have to be run in a way that's simply unsuitable for you. Gene Downing could operate the stereo shop, a business that placed enormous demands on his time, because his wife could help out; Tom Brown couldn't. Certain businesses can be operated profitably only as mom-and-pop operations; [4] Why does the seller want to sell the business? If you don't know the answer to this question with reasonable certainty, you don't know anything. [5] The seller isn't making enough money in the business. Few sellers admit to prospective buyers that the real reason they want to sell is that they're not making enough, even when the financial statements make that fact obvious.[6] The seller has a personal reason for selling. Businesses are often put up for sale even if they're in the best of shape. For whatever reason, the owner simply wants out. Everett Houston, who is about to turn 65, may have decided that he's made all the money he needs to make and wants to retire to Costa del Sol. He'll close the business if he can't find a buyer, but it never hurts to pick up a little extra cash by selling it. [7] The seller knows bad times are coming. This is the reason you really have to watch out for. Let's assume that the financial statements of Houston Sash & Door reveal that the business has experienced a steady increase in sales and profits for many years. Nothing in the financial statements gives you any cause for concern.</p>
Project Implementation Method (less than 2500 characters)	<p>After the requirement analysis phase consisting of appropriate derived use cases and user stories necessary to build around features and functionalities for the project we would move on for the core features selection and decide a specific workflow, over how to go implementing an MVP. In core-feature-selection it is important to fixate the base setup of the project that the project will be capable of doing. Determining the main data model entries, roles, organization and products that will play a role in the data design phase. Data Modeling would be our next step where extracting the main models of data listed before would be the primary goal that will help us to consider what views to provide for our core business logic and then moving onwards with our views. After the data models, listing down the user stories, view development (core view of the project itself as) and following software design principles would be our prior goal.</p> <p>In the tracking progress, the Workflow for the project will be based on scrum approach, which we will design and work around "cycles". Project Management tool will be Github which would be integrated with Linear for commits and pull requests tracking.</p> <p>We may or may not follow a TDD approach as there is little time, and a semester along with this project.</p>
Benefits of the	<ul style="list-style-type: none"> • Ascension will provide a vast and diverse variety of businesses listed. • Based on buyer's interest relevant businesses will be first listed. • No reach limitations. • A credible, trustworthy and reliable platform. • Business listing tools - Learn the key details to include in your listing and how to make your listing compelling to a buyer • Free Valuation - Find out what you should expect to pay for a business you are interested in including free valuation.

Project (less than 2500 characters)	<ul style="list-style-type: none"> The process of buying businesses will and selling be simplified in just a few steps.
Technical Details of Final Deliverable (less than 2500 characters)	<ul style="list-style-type: none"> Listing management: For any business to sell, the owner will have to create a listing of the business which will include all the details like sales, profits, debt, expenses, and cash flow, employees, legal liabilities etc. Live chat with your other merchant: This can be a way for merchant to start their trade negotiation using Ascension. A positive result of this chat can lead to further deal that will save time for both merchants. Wish-list: A wish-list allows buyer to create personalized collections of businesses they want to buy and save them in their user account for future reference. It will help signify a customer's interest to shortlist businesses from which he can later choose the one best suited for him. Searching/filtering: Searching a specific business by name or using filters to lead the user for the desired category. Generate a link of a listing: Buyers would need a second opinion if they like a specific listing, so this functionality allows the user to generate a link of the listing. Anyone with that link can open the selected listing. Generating A Valuation Report: Buyer has the option to view a generated valuation report of the business he intends to buy. Viewing the statistics of the business will help the buyer to judge and analyze the worth of business and then take decision accordingly. Personality Testing: During the onboarding process our platform would conduct a personality test for the buyers as well as businesses listed by the sellers that will enable our platform to manifest the right businesses for the right buyer. Auction and Biding: If multiple buyers are interested in the same business then the seller will have the option to enable bidding system for its listed business
Final Deliverable of the Project	A Web App for sellers to list their business and Mobile App for buyers to outlook listed businesses.
Core Industry (Optional)	Business For Sale Marketplace
Other Industries (Optional)	
Core Technology	Flutter React.js Node.js Express.js Mongo DB AWS PostgreSQL

Other Technologies (Optional)	Docker Visual Studio Code Github Linear
Sustainable Development Goals (Optional)	

References

1. Klueger, Robert F, Buying and selling a business : a step-by-step guide
Published by John Wiley & Sons, Inc., Hoboken, New Jersey,

Project Key Milestones

Elapsed time in (days or weeks or month or quarter) since start of the project	Milestone	Deliverable
Month 1	Requirement Analysis	Clear Picture of the Project
Month 2	Design Phase	UML Diagrams UI/UX Prototype.
Month 3	Data Modeling Architecture & Infrastructure	Database Structure/Schema Flux and Clean Architecture
Month 4	Implementation Phase (WIP) & Boiler Plate Setup	Initial Frontend and Backend (Web App)

Month 5	Implementation Phase (WIP)	Development In progress
Month 6	Implementation Phase (WIP)	Complete Development Phase
Month 7	Final Touches and FYP Report	FYP Report
Month 8	Testing and Deployment	MVP

Project Equipment Details

Item(s) Name	Type	No. of Units	Per Unit Cost (in Rs)	Total (in Rs)
			Total in (Rs)	
