

Roadmap to Students' Careers through Certifications - Team 9

Overview:

UT Dallas is a growing public research university with more than 29,000 students & over 140 degree programs. The variety of undergraduate, graduate and professional educational possibilities are embodied by its seven schools. Apart from all the teachings and guidance provided by professors and individual staff, Many students still need help to discover the most effective method to develop their skill set in the direction they have been hoping for. For instance, Information Technology and Management, a major offered by JSOM, has seven different paths: Cyber Security Management, Digital Product Management, IT Consulting and Services Management, etc...

Our business idea is to add a feature in the UTD app that includes numerous certifications, including their advancement paths recommended by different professors from all the branches of education throughout UT Dallas. This feature would serve as a roadmap for new, aspiring students who might not be sure what steps they can take to advance their careers, or get increased job opportunities, apart from the traditional classes.

Who is the customer?

The customers are aspirant students seeking appropriate direction to fulfill their long-standing objectives.

Is there significant potential for value creation?

Yes, Businesses are facing further difficulties, and several reliable sources of information on economic matters are revising their forecasts and predicting a global recession. Given that it is more expensive to hire and train new people than to give current employees training and other possibilities for career progression, global IT spending would increase by 3% to \$4.5 trillion. For students who need help knowing where to start when honing their skills for job opportunities, my application will give them a proper idea of the certifications they have to complete to differentiate them from others in the competitive market. As the business grows, we could also collaborate with other organizations.

“Value Proposition”

The main advantage for the customer is that my application offers tailored suggestions instead of requiring them to spend hours browsing through multiple websites for the best certifiers on the market. Most students are now skipping certifications due to cost and guarantee concerns. Because the data comes from university professors and is also organized according to pricing ranges, my application is entirely trustworthy and accurate. For the students enrolled at UT Dallas, my application is more time-saving, cost-effective, and convenient to use. By doing this, they will save time, and money and accomplish their objectives more quickly.

How is the Product or Service unique/different/superior to other offerings

As previously said, this solution is distinct and highly trustworthy because no other application exists and because the recommendation engine uses data sources like university professors and certifying organizations.

Success Criteria

The following is a list of the success criteria for the certifications feature of the UT Dallas app:

- A compilation of information on certification from each instructor for each class.
- Accurate filing of the information that has been gathered in a database.
- Integration of the certificates functions into the University of Texas at Dallas mobile application.
- Students will get access to more work options directly from the information regarding certifications.
- Students can achieve higher scores in their classes due to an explicit knowledge of the certification information.
- A deeper level of engagement with the bodies responsible for awarding certifications to supply students with the most recent and relevant information possible.
- Increased levels of student contentment with the university and the services it provides.
- Communication and effective coordination between the teachers at UT Dallas, the UT Dallas app, and the organizations that certify students.

High Level Requirements

- Certifications are extremely important to a student's career. The goal of this project is to make students' career options simpler by providing information on certifications.
- Facilitate a communication channel with the professors at UT Dallas, gather their required and optional certifications and opportunities for further education regarding the specific paths that they focus on.
- The collected information from Professors regarding the certification needs to be stored in the database.
- In order to access the details of certification by students on the UT Dallas App, we need to talk to the representative of UT Dallas app to add the certifications feature into it, so that students can conveniently plan their career according to their needs as certifications enhance the job opportunities.
- Other critical requirements include software and hardware, which includes programming, servers, computers and technical experts.

Summary Milestone Schedule

APPLICATION DEVELOPMENT:

S.No	Major Milestones (Deliverables)	Project Timelines
1	Analysis & System Design	2 Weeks
2	Data Gathering	1 Week
3	Data population in Database	1 Day
Backend Code Development- 4 Rest APIs		
4	Data Acquisition	2 Weeks
5	Data Posting	2 Weeks
6	Data Update	2 Weeks
7	Data Delete	2 Weeks
Frontend Development		
8	API contracts	5 Weeks - (In Parallel)
9	Web Page Development (UI)	5 Weeks - (In Parallel)

Total Time Period	11 Weeks - 6 Sprints
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Summary Budget

S.No	Purpose	Billing(per month)
1	Server	\$15 per month
2	Backend Development Technology (Basic Version)	Free
3	Frontend Development Technology (Basic Version)	Free
4	MacBooks (4)	\$4,800
5	Wi-Fi	\$100
6	Power	\$300
7	Product Owner/Lead/Scrum Master	\$12,800
8	Backend Developer- Senior	\$10,400

9	Backend Developer- Junior	\$7,200
10	Frontend Developer- Senior	\$9,600
11	Frontend Developer- Junior	\$6,400
12	Miscellaneous	\$1,000
Total =		\$52,615

COST-BENEFIT ANALYSIS

Initial Investment-105230

	A	B	C	D	E	F	G	H	I
1	DISCOUNT RATE	10%						Per Annum Charge Per Student	40
2	Particular	Cost	Earnings			Cash Flow	Cumulative Cash Flow	Students	Revenue
3	Year 0	105230	4000			-101230	-101230	100	4000
4	Year 1	4000	12000			8000	-93230	300	12000
5	Year 2	4000	32000			28000	-65230	800	32000
6	Year 3	4000	60000			56000	-9230	1500	60000
7	Year 4	4000	68000			64000	54770	1700	68000
8	Year 5	4000	108000			104000	158770	2700	108000
9	Year 6	4000	160000			156000	314770	4000	160000
10	Year 7	4000	400000			396000	710770	10000	400000
11	Year 8	4000	1000000			996000	1706770	25000	1000000
12	TOTAL COST FOR	137230	1844000			1706770	3413540	TOTAL	1844000
13									
14									
15									
16			ROI	1243.73%					
17			NPV	\$835,455.43					
18			IRR	58.55%					
19									

Breakeven Period : 3 Years and 1 month(Approx).

-This project can be moved forward because NPV is positive and the IRR is relatively high.

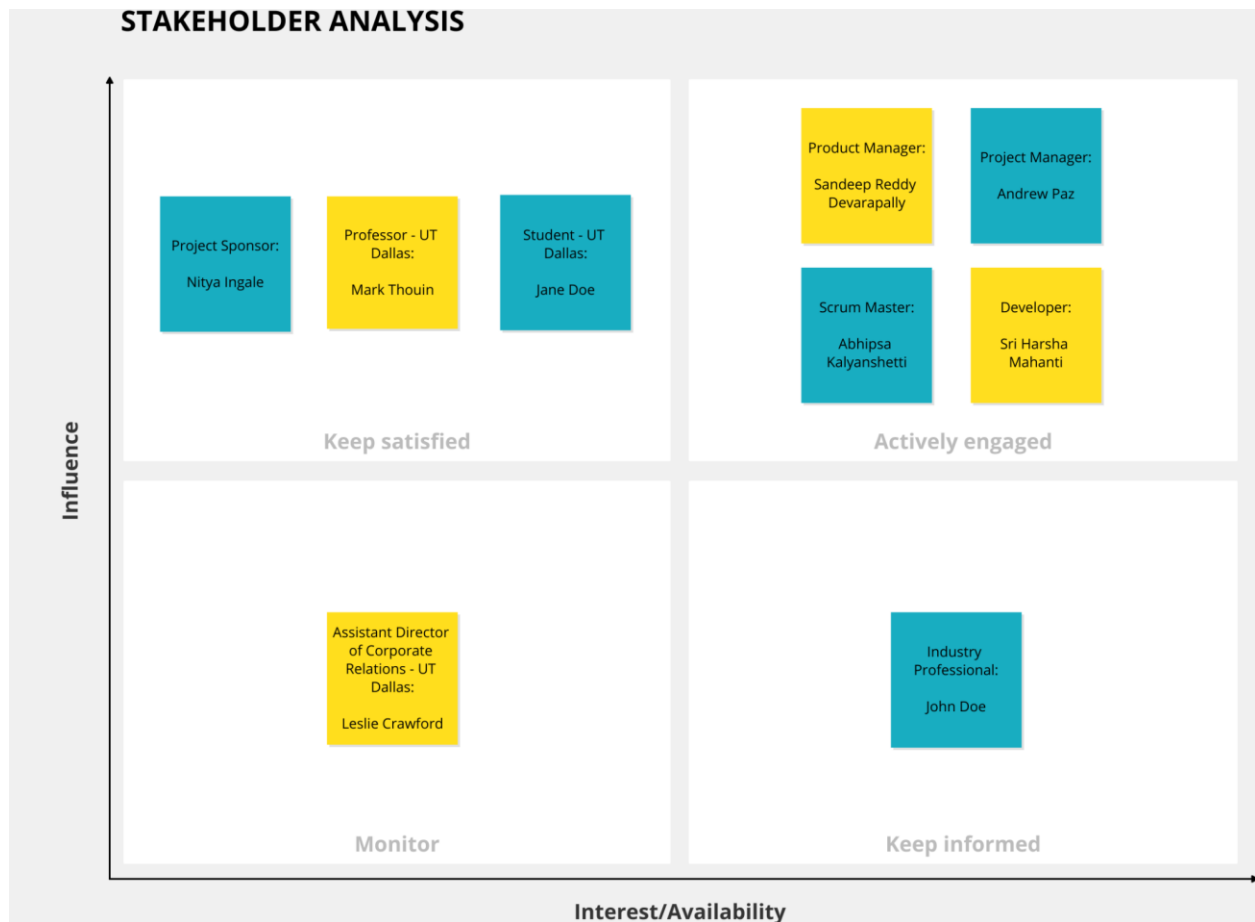
-Based on the student population of 30,000(as per current stats) at UT Dallas, we aim to reach 50% percent (15000), even if we hit 2% in the first year, it will be 300 students.

-If students were charged 40\$ per year, we would reach the breakeven in 3 years and 1 month(approx), if only little less than 6% of UT Dallas students showed interest.

Names of project sponsor, project manager, and product manager

- Project Sponsor - Sandeep Reddy Devarapally
- Project Manager - Andrew Paz
- Product Manager - Nitya Ingale
- Scrum Master - Abhipsa Kalyanshetti
- Developer - Sri Harsha Mahanti

Stakeholder Register			
Stakeholder	Title / Role	Stakeholder Analysis Group	Communication Vehicles
Sandeep Reddy Devarapally	Project Sponsor	Keep Satisfied	Semester Reports Status
Nitya Ingale	Product Manager	Actively Engaged	Weekly Reports Status
Andrew Paz	Project Manager	Actively Engaged	Weekly Reports Status
Abhipsa Kalyanshetti	Scrum Master	Actively Engaged	Every Day
Sri Harsha Mahanti	Developer	Actively Engaged	Every Day
Jane Doe	Student	Keep Satisfied	UTD App / Semester Feedback
Mark Thouin	Professor/ Director - UT Dallas	Keep Satisfied	Semester inquiries
Leslie Crawford	Assistant Director of Corporate Relations - UT Dallas	Monitor	Email / Weekly Status Reports
John Doe	Industry Professional	Keep Informed	Email / Monthly Status Reports



Members Contributed to Project Charter Assignment:

- Nitya Ingale
- Sandeep Reddy Devarapally
- Abhipsa Kalyanshetti
- Sri Harsha Mahanti
- Andrew Paz