Satendra Kushwaha Project Specification Plan ^M Risk Register.docx

by Satendra Kushwaha

Submission date: 05-Jan-2025 09:57PM (UTC+0545)
Submission ID: 2559941107
File name: Satendra_Kushwaha_Project_Specification_Plan_M_Risk_Register.docx (263.39K)
Word count: 1157
Character count: 7177

BSc (Hons) Computing Course 2023/24

Level 6 Production Project

Name: Satendra Kushwaha	**Student I.D.: 77356760**
Course: BSc (Hons) Computing	**Supervisor's Name:**

Final Project Individual Aim & Objectives

Title of my Project:

AgriVision: Advanced Systems for Modern Agriculture

Aim of my Project:

The AgriVision project aims to empower rural farmers by developing an innovative mobile platform that provides direct market access, ensures fair prices for agricultural products, and reduces food wastage. By eliminating intermediaries, the app creates an open marketplace for farmers and consumers, allowing them to engage directly. AgriVision offers tailored crop recommendations based on local climate conditions and market trends, helping farmers optimize production and profitability. The project also promotes sustainable farming practices, offers educational resources, and improves logistical systems, all contributing to increased farmer incomes and the overall growth of rural economies.

Objectives of my Project:

- Create a Market for Groceries and Farm Products in order to Cut Down organic Waste
- Direct Consumer Access Can Boost Farmer Profits
- Presenting Crop Trend Suggestions
- Guidance is provided on Climate-Sensitive Crop Cultivation
- Improve Agricultural Education and Knowledge
- Offer easy and flexible Payment Options

- Encourage the use of sustainable farming methods
- Give Transactions Real-Time Location Sharing of Famers
- Expand Economic Opportunities

Specification of my Product:

Functional activities:

Features	Priority
User Registration & Authentication	**M**
Scroll System to Order	**M**
Order Tracking	**M**
Secure Payment System	**M**
Trader and Consumer Registration	**M**
Product Listing	**M**
Costumer Call System	**S**
Feedback & Review System	**S**
Crop Trend Suggestions	**C**
Climate-based Guidance	**C**
Geolocation-based Search	**S**
Delivery Management	**S**
Subscription Model	**C**
Push Notifications	**W**
Energy-Efficient Design	**W**

Non - Functional activities:

Features	Priority
Farmer Verification (KYC)	**M**
Data Security	**M**
Controlling Product Expiry to Maintain Freshness	**S**
Guaranteed Customer Support	**M**
User-Friendly Interface	**M**
App Multitask Performance	**M**

Multilingual Support (Nepali/English)	**S**
Offline Mode & Data Syncing	**C**
Scalability	**S**
Sustainability Practices	**C**

Research:

This research helps to removing a middle-men and guaranteeing fair prices for agricultural products AgriVision Market is a mobile platform designed to close the gap between rural farmers and customers. Farmers can display their products openly on the app, and customers can explore, call with farmers, and buy things instantly. One of AgriVision most notable features is its crop recommendation tool, which helps farmers maximize their production and revenue by offering tailored recommendations based on local climate and market demand (Bhende et al., 2018). In order to guarantee on-time delivery, the platform also incorporates live location sharing, tackling problems such product spoiling and limited market accessibility (Emerald, 2023). AgriVision seeks to improve rural farmers' lives and promote sustainable agricultural practices by giving them the resources they need to make educated decisions and by establishing a direct marketplace (Alamin, 2023; KSU, 2023). In rural agricultural sectors, this strategy fosters fair trade, economic expansion, and long-term sustainability.

Project Planning & Methodology

Project Planning:

	Resource Name	Type	Material	Initials	Group	Max.	Std. Rate	Ovt. Rate	Cost/Use	Accrue At	Base
1	Satendra Kushwaha	Work		S		100%	$0.00/hr	$0.00/hr	$0.00	Prorated	Stanc
2	Vs code	Material	IDE	V			$0.00		$0.00	Prorated	
3	Laravel	Material	Software	L			$0.00		$0.00	Prorated	
4	Html css php js	Material	Software	H			$0.00		$0.00	Prorated	
5	Flutter	Material	Software	F			$0.00		$0.00	Prorated	
6	MySQL database setup	Material	software	M			$0.00		$0.00	Prorated	
7	Xampp	Material	server	X			$0.00		$0.00	Prorated	
8	Git Hub	Material	Software	G			$0.00		$0.00	Prorated	
9	Google Maps API	Material	software	G			$0.00		$0.00	Prorated	
10	Postman	Material	software	P			$0.00		$0.00	Prorated	
11	Ms Project	Material	software	M			$0.00		$0.00	Prorated	
12	Payment Gateway	Material	Software	P			$0.00		$0.00	Prorated	
13	figma	Material	software	f			$0.00		$0.00	Prorated	
14	canva	Material	software	c			$0.00		$0.00	Prorated	
15	Google	Material	software	G			$0.00		$0.00	Prorated	
16	Google Scholer	Material	software	G			$0.00		$0.00	Prorated	
17	google Meet	Material	software	g			$0.00		$0.00	Prorated	
18	Gmail	Material	Software	G			$0.00		$0.00	Prorated	
19	Ms Word	Material	software	M			$0.00		$0.00	Prorated	
20	Ms Project	Material	software	M			$0.00		$0.00	Prorated	

Fig: Resource Sheet

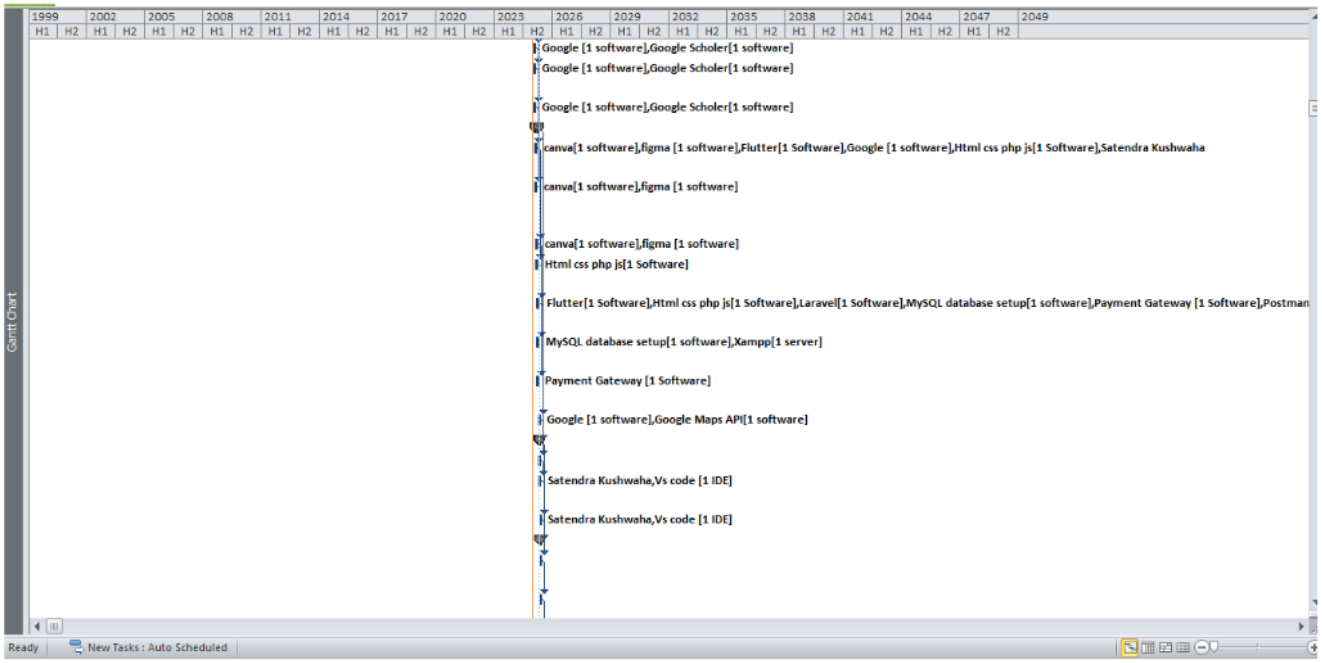

Fig: Gantt Chart planning of a project

	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Add New Column
1		**AgriVision Production Project**	**91 days**	**Mon 1/6/25**	**Mon 5/12/25**			
2		**Initiation**	**15 days**	**Mon 1/6/25**	**Fri 1/24/25**			
3		Planning & Researcl	5 days	Mon 1/6/25	Fri 1/10/25		Google [1 software],Google Scholer[1 software	
4		Market Research	4 days	Mon 1/13/25	Thu 1/16/25	3	Google [1 software],Google Scholer[1 software	
5		Material Gathering	3 days	Fri 1/17/25	Tue 1/21/25	4	Google [1 software],Google Scholer[1 software	
6		Feasibility Study	3 days	Wed 1/22/25	Fri 1/24/25	5	Google [1 software],Google Scholer[1 software	
7		**Development**	**60 days**	**Mon 1/27/25**	**Fri 4/18/25**	**2**	**canva[1 software],figma [1 software],Flutter[1**	
8		System Design	15 days	Mon 1/27/25	Fri 2/14/25	6	canva[1 software],figma [1 software],Flutter[1	
9		System Development Design	15 days	Mon 1/27/25	Fri 2/14/25	6	canva[1 software],figma [1 software]	
10		UI/UX Design	15 days	Mon 2/17/25	Fri 3/7/25	8,9	canva[1 software],figma [1 software]	
11		Frontend Developm	15 days	Mon 2/17/25	Fri 3/7/25	8,9	Html css php js[1 Software]	
12		Backend Developm	25 days	Mon 3/10/25	Fri 4/11/25	11,10	Flutter[1 Software],Html css php js[1 Software	
13		Database Integration	15 days	Mon 3/10/25	Fri 3/28/25	11,10	MySQL database setup[1 software],Xampp[1 server]	
14		Payment Integration	5 days	Mon 3/10/25	Fri 3/14/25	10,11	Payment Gateway [1 Software]	
15		API Development	5 days	Mon 4/14/25	Fri 4/18/25	12	Google [1 software],Google Maps API[1 softwa	
16		**Testing**	**8 days**	**Mon 4/21/25**	**Wed 4/30/25**	**7**	**Satendra Kushwaha,Vs code [1 IDE]**	
17		Unit Testing	2 days	Mon 4/21/25	Tue 4/22/25	15		
18		System Integration	4 days	Wed 4/23/25	Mon 4/28/25	17	Satendra Kushwaha,Vs code [1 IDE]	
19		Security Testing	2 days	Tue 4/29/25	Wed 4/30/25	18	Satendra Kushwaha,Vs code [1 IDE]	
20		**Finalization**	**8 days**	**Thu 5/1/25**	**Mon 5/12/25**	**16**	**canva[1 software],figma [1 software],Flutter[1**	
21		WIP(Work in Progre	5 days	Thu 5/1/25	Wed 5/7/25	19		
22		Testing and Debugg	1 day	Thu 5/8/25	Thu 5/8/25	21		
23		Full Launch(Demo)	2 days	Fri 5/9/25	Mon 5/12/25	22	Satendra Kushwaha	

Fig: Task sheet that displays a project planning

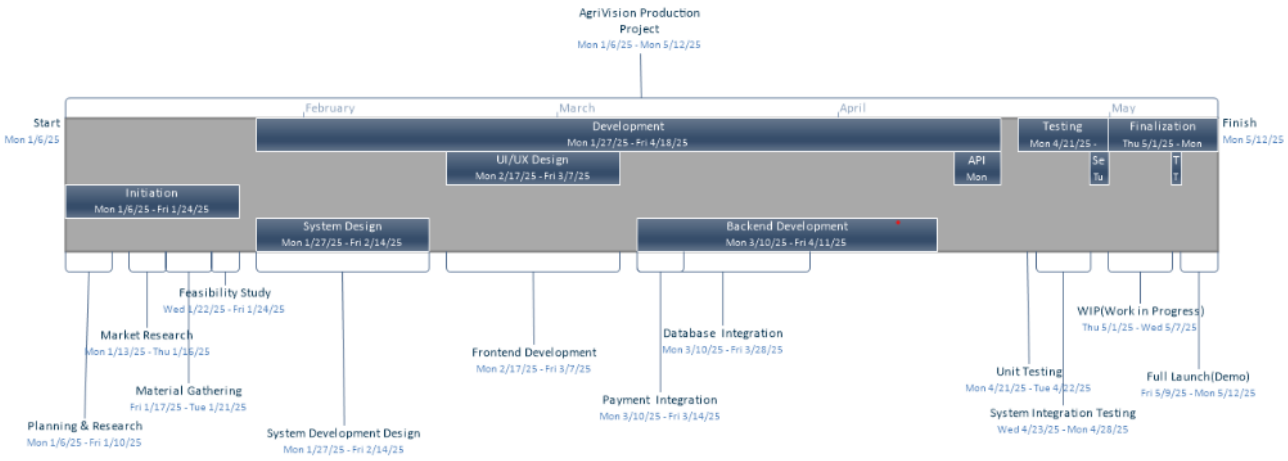

Fig: Timeline of the project

Methodology:

The goal of the AgriVision project is to develop a simple app that will help rural farmers and raise their standard of living. Research is the first step in identifying problems including crop waste, unjust pricing, and problems with market access. The app's features, which include climate-based production guidance, crop trend recommendations, direct market access, and live location sharing, are based on these findings. The development approach places a strong emphasis on dependable operation, safe payment methods, and an intuitive user experience. Frequent testing guarantees that the app satisfies practical requirements. In order to meet farmers' needs and guarantee long-term growth, the project ends with deployment and continuing updates.

Resources

To successfully finalize my project, I will need the following hardware and software:

Software requirement:

Item	Source
Vs code	Satendra Kushwaha
Laravel	Satendra Kushwaha
Html,css, php, java script	Satendra Kushwaha
Flutter	Satendra Kushwaha
MySQL database setup	Satendra Kushwaha
Xampp	Satendra Kushwaha
Git Hub	Satendra Kushwaha
Google Maps API	Satendra Kushwaha
Postman	Satendra Kushwaha
Ms 365	Satendra Kushwaha
Payment Gateway	Satendra Kushwaha
Figma, Canva	Satendra Kushwaha
Google, W3 school, google scholar , Gmail, Google meet	Satendra Kushwaha
Youtube	Satendra Kushwaha

Hardware requirements:

Item	Source

Dell Vostro Laptop(Windows)	Satendra Kushwaha
Internet	Satendra Kushwaha
Android Device(for testing)	Satendra Kushwaha

Human Resource

I am working on my Project with the following people

Name: Satendra Kushwaha	**Role: Researcher/Developer**
	Module Leader
	Supervisor

Initial Bibliography

Bhende, A., & Suryawanshi, P. (2018). Agriculture in India: Challenges and Opportunities. Journal of Rural Development, 34(2), 76-85.

Emerald, R. (2023). Bridging the Gap: Technology's Role in Rural Agriculture. Agricultural Technology Review, 9(3), 110-118.

Alamin, M. (2023). Sustainable Agricultural Practices in Rural Economies. International Journal of Agricultural Sciences, 15(1), 56-63.

KSU. (2023). Climate-Sensitive Crop Cultivation: A Key to Future Agriculture. Agro-Climate Journal, 11(4), 142-151.

Gupta, A., & Mehta, P. (2020). E-Commerce in Agriculture: A Shift Towards Direct Market Access. Journal of AgriTech, 18(5), 200-210.

Smith, J. (2022). Leveraging Mobile Apps for Agricultural Growth: Case Studies and Insights. Digital Agriculture Review, 6(2), 88-95.

Risk Register

Satendra Kushwaha-77356760

Production Project

ID	Risk	Risk Description	Likelihood	Impact	Severity	Owner	Mitigation	Status
1	Technical Issues with App Development	Possible technical challenges, such bugs, sluggish performance, or compatibility problems, during the app development process.	Medium	High	High	Satendra Kushwaha	Regular testing, debugging, and code reviews. Monitor performance and address issues promptly.	Open
2	Delays in User Registration & Authentication	Due to technical constraints, the user registration and authentication system's development and deployment were delayed.	Medium	High	High	Satendra Kushwaha	Give this feature top priority, test it extensively, and make sure there are enough resources and assistance available for troubleshooting. .	Open
3	Payment Gateway Integration Issues	Dependencies on external parties may cause delays or difficulties while integrating the payment gateway.	Medium	High	High	Satendra Kushwaha	Research and test payment gateway options early in the project, establish communication with payment providers.	Open
4	Inaccurate Crop Trend Suggestions	The app's usability may be impacted by inaccurate crop recommendations based on by data or algorithmic restrictions.	Low	Medium	Medium	Satendra Kushwaha	Collect relevant data, continuously update the system, and test crop recommendations for accuracy.	Open

5	Data Security Breaches	Potential risks of data breaches compromising user information, leading to security concerns.	Low	High	High	Satendra Kushwaha	Use secure authentication, put encryption into practice, and make sure that security audits and updates are conducted on a regular basis.	Open
6	Limited User Adoption	The app may not attract sufficient users due to a lack of marketing efforts or challenges in adoption by the farming community.	Medium	Medium	Medium	Satendra Kushwaha	Develop a strong marketing strategy, provide training resources, and ensure the app is easy to use for farmers.	Open
7	Supply Chain or Delivery Management Issues	Delays or issues in the delivery process leading to dissatisfaction among users and potential product spoilage.	Medium	High	High	Satendra Kushwaha	Collaborate with dependable delivery services, monitor delivery status in real time, and notify users.	Open

Note: The file containing the Turnitin report includes a risk register.

Satendra Kushwaha Project Specification Plan ^M Risk Register.docx

ORIGINALITY REPORT

6%	5%	0%	6%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	Submitted to The British College Student Paper	6%

Exclude quotes	Off	Exclude matches	Off
Exclude bibliography	On		