**CAPSTONE PROJECT 1 PART 1**

Online Agriculture Products Store

Q.1 BPM 5 Marks

ANS :- BPM stands for Business Process Model It consist of Process that consits Goal , Inputs , Resourse ,Outputs , Activities , Value added service to the customer . BPM expain the complete process flow in our project , it provide the clear understanding for the project . As per our Project Online Agriculture Products Store BPM is

Goal :- Fulfil needs of customer to purchase Agriculture products online through websites , links and online portal

Inputs :- Projest Catelog ( Price features and benefits of Product) Products details , logistic foods , Server details , Customer Data ,

Resourse :- Committee member are resources they help in completion of complete process

Mr. Pandu , Mr. Henry , MR. Dooku , Mr Karthik , and Mr Vandanam .

Outputs :- Delivery of Product Using Website , Application , Using product Link Sales Revenue , Efficency , Application should be user friendly

Activities :- Excellence Customer Service , Design , Mode of Payment, Customer will be the users ,

Value added Services :- Easy to access , Wide Range , Cutomer Satisfaction , Details of product

Q 2 SWOT 5 Marks

ANS :- SWOT Stands for Strength , Weakness , Opportunity , Threats as a Business Analysist we should always aware about Swot in out Project that will help us very much to create a successful project .

As per our Project Online Agriculture project

**Strength**

Strong Brand Recognisation , Reputation , There is no such Application in Market for competition so there is no Competition

**Weakness**

Awareness of Farmers , As farmers are not very much aware for online application and using online portal , Depends Upon External Vendors , Inventory Management

**Opportunity**

Expansion on the Market , Expansion in New Product

**Threats**

Very Popular , Competitor can easily enter in ,

Q 3 . Feasibility Study

Feasibility study means to understand project is feasible to go or not there are enough Recourse , Technology , Sufficient Budget and time to complete the Project .

Technology :- Payment Gateway , API , and security and Cash on delivery

Hardware :- Best Networking and Infrastucture

Software :- Payment gateway Software

Resources :- Our complete Team Mr, Henry , Mr Pandu , , Mr . Dooku , Mr Karthik

Budget :- As per our Project the complete budget is around 2 Crore we includes Development Cost , Hardware costs , Software costs , license , website creation , Market Publicity , Brand Image etc .

Time Frames :- Project should we complete in given time frame . In our Project the given time frame is around 18 Months . Project should be complete in given time frame and given budget .

Q 4 :- Gap Analysis

Gap Analysis is generally explain the current state that is AS IS ( Present ) and the future state that is TO BE ( Future State ) or we can say Current State and desired State

AS IS :- Farmers are Struggling for Seeds , Fertilizers and Pesticides due to location constrains Due to lack of these Agriculture product farmers crop is getting effected At present Offine store is used which effect Manpower , Efficiency and tme

TO Be :- Means the Future state or Desired State , Online Website is created for purchasing Agriculture Products from anywhere . Easy to access due to Online Portal , No Compromise in Quality , Easy to delivered on location with in limit time . Continue investment in Development , Publicity , Marketing . We can place our order from any place which save our time , Manpower ,

Q 5 Risk Analysis

Risk Analysis is conducted to identify the risk as when we work on any project definitely risk factor is their There are different types of risk depends upon the condition Such as Operational Risk , Reputational Risk , Technical , Legal , etc

1. Internal Risk :- Inventory Management , Server Availability , Easy to access ,Website should be user friendly , Security Breach
2. External Risk :- Security Breach ,Pricing Risk , Better presentation , Payment Risk
3. BA Risk :- This risk involves Improper Requirement Gathering which will Majorly effects our Project , Rates should be competitive , Response in Market , better ranking and rating to particular product , Proper Domain Knowledge
4. Process Risk :- For booking any order steps should be easy so that farmer can easily place and order again rates should be competitive , product catalog contains complete features and result should be healthily .
5. Projects Based Risk :- Scope Risk should be their Project should be complete in given budget and timeframe , These risk are specific to project itself

Q 6 :- Stake Holder Analysis ( RACI Matrix )

Stake Holder analysis or RACi Matrix means who are the people involve , what are the risk

1. Responsible :- The person who is responsible for the project , the doer of the project are Mr. Henry , Mr. Pandu Mr Dooku , Mr Teyson , Ms lucie , Mr Tucker , Mr Barvo , Mr Mike
2. Accountable :- The person who are accountable for the project , Mr Vandanam Project Manager Mr. Henry , Mr Pandu , Mr Dooku .
3. Consultant :- Again the person from whom we take consult so they are Mr Pandu Mr. Henry and Mr Dooku
4. Informed :- The person to whom to be informed or the person who are informed here Mr Henry . All the committee member inform to him .

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| **RACI Matrix for Project** | | |
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|  |  |  |
| **RACI** | **Name of the Person** | **Designation** |
|  |  |  |
| **Responsible** |  | **Manager** |
|  | **Mr. Jason** | **Tester** |
|  | **Ms Juhi** | **Software Development** |
|  |  |  |
| **Accountable** |  |  |
|  |  | **Client** |
|  | **Mr. Vandaman** | **Project Manager** |
|  | **Deepti Soni** | **Business Analysist** |
| **Counsulant** |  |  |
|  |  | **Hr Head** |
|  |  | **Process Manager** |
|  | **Mr Mike** | **Netwrok Head** |
| **Informed** |  |  |
|  | **Kevin, Ben, Piter** | **Sponser** |
|  | **Mr Henry** | **Projest Head** |
|  | **Mr. Pandu** | **Finance Head** |

Q. 7 Business Case Document

We have to create busniess case document to know weather the project is align with the goals or not

* Why is this project intiated ?

The project is intiated to open an online store for griculature products that helps farmer to purchase their seeds furtilize and Prestisize online from website . The only thing which is require knowledge of using online applicartion and proper connectivity .

* What are the Current Problem ?

At present as the farmer are living in Remote villages they are facing difficulties in procuring fertilize seeds and Prestisize . They have to move to city for purchasing of these products .

* With this project how many problem could be solved

As with this project problem for purchaing agriculture product will be solved for all farmers . As they can make an oer online and get their product at desired location .

* What are the Resources Required

For this project we require Financial Head and Mr Dooku Project Coordinator , Mr karthik delivery head ,Mr Vandanam Project Manager , Ms Juhi Senior Java Developer , Mr Teyson , Ms Lucie , Mr Bavo java developers , Network Admin Mr Mike and DB admin John Mr Jason and Mr Alekya are the tester and I work as a BA for this team

* How Much Organizational change is required to adopt this technology .

Farmers are moving from Office to Online mode , Physical to digital mode Farmers should be aware of using online portal for purchasing products , they require proper internet connectivity also they know the complete process step by step for placing an order for a particular projects . They can use this benefit only if they have complete knowledge of using the portal and selecting their correct product , placing order , payment etc

* How to identify Stake Holders

The person who is resposibile , Accountalble , Consulted and informed are the stake holders in this project and these are our complete team , PM PH , Sponser ,Client , Java Developers ,Admin , tester etcs

Q :- 8 SDLC Methodologies

There are four methodologies Sequential , Iterative , Evolutionary , and Agile

Sequential :- It follow a linear Approach one step is complete then only move to other step .

Iterative :- It follows a iterative approach means you follow a series of approach and use this steps again and again until we complete the project

Evolutionary: - we are collecting feedback and based n feedback we are improving the forward version etc .

Agile :- Agile is most popularly used we can create projects in very short time and we deliver projects in multiple iteration , we can accepts change request into this Agile . Agile projects contains lot of change requests.

Q 9 SDLC Models Waterfall , RUP , Spiral , Scrum , V Models

There are below mention Modules are in SDLC System Development Life Cycle

* Waterfall :- In water fall model each phase is complete entire before next phase starts . At end of each stage review take place
* Steps in water fall models are Requirement Gathering , Requirement Analysis , Design , Deployment , Testing and Implementation these are the steps in Waterfall Model and we create the documents such as BRD , SRD , FRD , HDD,ADD, LDD, CDD
* V Mdels :- In this Model Designing and Testing take place at every stage . Coding and Testing done at every level . V Model is extension form of Waterfall Model , In present days we use V model Only . This model is very simple and easy to use . High amount of risk is their due to simple model , Poor Model for long and on going projects
* RUP :- The base of RUP is UML . It follows 6 Engineering disciplines such as Business Modeling , Requirements , Analysis and Design , Implementation , Testing and Deployment Supporting disciplines are Change , Project and Environment Management There are 4 projects life cycle stages

1. Inception :- Agreement Among the Team
2. Elaboration :- Agreement within the team
3. Construction :- Iterative implementation of fully functional projects
4. Transition :- Delivery and Defect Correction to ensure customer acceptance

* Spiral :- This model follows Evolutionary Approach . Spiral Starts from origin and goes out of origin. This model increase time and budget . Spiral is best model in paper . Spiral has four phases Planning , Risk Analysis , Engineering and Evolution. . Sprial is best for large mission projects such as Defense Projects , Scientist Projects
* Surum :- Surum can be implemented either at the beginning of the project or when project is falling behind schedule . Surum contain Scrum Team , Scrum Master , Scrum

Planning Meeting , Scrum Review Meeting etc.

Q 10 :- Write down the difference between WaterFall and V Model

Water Fall :- Low Cost , Testing take place at later stage , Move in Linear Way , Low customer involvement

V Model :- Expensive , Testing take place at first stage , Don’t Move in Linear way , More Customer Involvement .

Q. 1 1 As a BA state reason for choosing one model for this projects

As a BA I understand that V model is best for the project because in this Model Designing and Test happen in each stage of project . Either it is Expensive but clear in every stage .V model is easy to understand and easy to manage . As this project is very small so this model works well and the requirement is very well understood.

Q 12 Gantt Charts

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| **Resources** | **Week 1** | **Week 10** | **Week 20** | **Week 30** | **Week 40** | **Week 50** | **Week 70** | **Week 90** |
| **Project Manager** |  |  |  |  |  |  |  |  |
| **Business Analysist** |  |  |  |  |  |  |  |  |
| **Java developers** |  |  |  |  |  |  |  |  |
| **Operational and Support Head** |  |  |  |  |  |  |  |  |
| **Tester** |  |  |  |  |  |  |  |  |
| **Network Engineer** |  |  |  |  |  |  |  |  |
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Q 13 Explains the difference between Fixed Bidding and Billing Projects

A Fixed Bid Project time and budget are fixed in our project . . So service provider agrees to deliver the same on fixed price and date . WE have to deliver this project in particular time and budget Their will be risk for any cost of delay in this projects .

A Billing Project is that in which time and budget are not fixed over here . Billing is made as per work done . This should be based on hourly basis . The work done for hours according to that billing is done or they would be paid .

Q !4 Prepare Timesheets of a BA in Various stage of SDLC

What ever the work we are doing we Are filling Time Sheets at day end

Time Sheets for different stages of SDLC are mentioned below

Requirment Gathering