**1 . Business Process Model :-**

  A business process is a collection of activities designed to produce a specific output for a particular customer or market.

**Goal** : To build an application/online store which can facilitate farmers to buy Agriculture goods from anywhere.

 **Inputs** : Farming products and companies manufacturing them.

 **Resources** : Mobile phone, Computer, Internet connectivity, Farming companies, Agricultural products like Fertilizers, Seeds, and Pesticides.

 **Output** : Application where farmers can buy seeds and agriculture products.

 **Activities** :

* Farmer should Register with Name and Address
* Then enter the online store with Login details
* Select the product they want to purchase
* Farmer should either pay by Card/Online banking
* Order confirmation
* Delivery of Agricultural goods

**Value created to the end Customer** : User friendly and easily accessible

**2. SWOT :-**

|  |  |
| --- | --- |
| **Strengths**Getting a project from the SOONY company due to his previous project success | **Weaknesses**Lack of existing efficient resources for doing such project |
| **Opportunity**This kind of project they are launching for the first time this is the opportunity to capture the whole market | **Threats**Less allocated budget |

**3. Feasibility :-**

**HW developers**: Not required because we are building websites, we don’t require any feasibility study.

**SW developers**: We can go with 7 software developers will be software developers which include testers ,Java developers and network admin.

Trained Resources our java is having expertise but need to some training for the testers.

**Timeframe**: we have got 18 months Duration, but we can complete it on 15months and keep 3 months extra in case of any problem or change request.

**Budget**: we have got 2cr budget we can complete with this budget.

**4. GAP Analysis :**

|  |  |
| --- | --- |
|  **AS-IS existing process** |  **TO-BE future process**  |
| * We don’t have any existing process or web application at present for ordering things.
* Traditional way to purchase products i.e. just from market.
 | * To build web application where the farmers can easily order the pesticides.
* will provide quick and easy way to purchase item.
 |

**5. Risk Analysis :-**

An Uncertain Event or condition which can have impact on either cost, time and scope. Risk Analysis is the process to identify the business ,financial, technological & operational risks.

**BA Risks** : Improper requirement gathering from the farmers, Improper planning for the project.

* BA missing seller details.
* Due to lack of time, BA didn’t plan the meetings with the Stakeholders
* Stakeholders rushing through the details while sharing the requirements.
* Being a new kind of project, BA might have lack of domain knowledge.
* BA missing the CSR (Corporate Social Responsibility) initiative point.

**Process Risk**: lack of team support, continuous change requirement.

**Project Risks**: website not working properly, farmers not able to put details in website, Unrealistic expectation from the client.

 **Cost Risk** : Project may get stalled due to lack of budget. Being a new kind of project in the market, sponsors may be unaware of the budget the project need

**Market Risk** : Being a new kind of project in the Market, stakeholders may miss requirements to share with the BA

**Governance Risk** : Agriculture is always related to Govt any new Govt policy may change the whole process or stall the whole project completely.

 **Strategic Risk** : Sellers may not like this process of giving options to the farmers, as they might lose on their profit. Hence, they may go on strike.

**6. Stakeholder Analysis ( RACI Matrix )**

**Responsible** : I will be responsible (BA)

**Accountable** : Mr Vandanam project Manager will be accountable

**Consultant** : Teyson, Ms Lucie, Mr Tucker, Mr Bravo, Mr Mike, John Mr Jason and Ms Alekya t

**informed**- Mr Henry, Mr Pandu , Mr Dooku

**Supportable** : Mr Henry

|  |
| --- |
| RACI – Responsible (R) – Accountable (A) -Consulted (c)- Informed (I)- Authorize (\*) Not available (NA) |
| Tasks | Mr. HenryProject Sponsor | Peter, Kevin,Ben-Key Stakeholders | Mr. Karthik DH | Mr. Vandanam PM | MS. Juhi Sr. Java Dev | TeysonLucieBravo &TuckerJava Dev | Mr. Jason & Ms. Alekya Testers | Veera |
| Requirements Gathering  |  \* | C | NA | A/I | NA | A | NA | R |
| Requirements analysis | NA | NA | NA | I | NA | NA | NA | R |
| Development | \* | NA | NA | R/A | C/A | R | NA | C |
| Testing  | NA | NA | NA | R/A | I | NA | R | I |
| Implementation  | NA | NA | R | I | I | NA | NA | R |
| UAT | I | NA | NA | R/A | NA | NA | NA | C |

**7. Business Case Document :**

The project is initiated because there was demand for pesticides in the farmers and there was no availability So, this website will act as a felicitate role between the company and farmers.

The current problem is that farmers are facing pest problem because of unavailability of pesticides in the market The crops get destroyed due to unavailability of pests.

with this project the problems could be solved are

* The pesticides will be available in quick time to farmers.
* There will be no middlemen in between so they can get the products at cheaper rates.
* No need for the farmers to go the market in search of pesticides it will deliver to their house.

 The resources required are

* We need a good set of technical teams (developers, testers, designers)for the project.
* we need 2crore of funds for the project.
* high speed internet facility.

organizational changes required to adopt this technology are:

There will be no such organizational changes for adopting this technology.

Time frame to recover ROI will be of 3 years as we are expecting good number of farmers and companies will enroll.

**8. SDLC Methodologies :**

The four methodologies like Sequential Iterative Evolutionary and Agile are:

**1.Sequential** : The entire project is delivered at the end of developing life cycle.

**2.Iterative** : With frequency some modules are delivered In this model, the total. software development is divided into iterations and each iteration has design, development, testing and review.

**3.Evolutionary** : With in the scope, they will continuously evolve they will try and fail and then they will start adding functions.

**4.Agile** : Continuous delivery in every stage of the project.

|  |
| --- |
| 5 Years Project 2025 2026 2027 2028 2029 SequentialIterativeEvolutionaryAgile |

**9. The different methodologies are:**

**Waterfall model** : It is an traditional model and it follows a structured approach with each phase having specific deliverables.

**V Model** :  It is an verification and validation model in which each phase must be completed so that next phase begins Testing of the product is planned in parallel with a corresponding phase of development in V-model.

**RUP Mode :** RUP stands for Rational Unified Process, where phase /module wise (long term project) application is developed Hence, we can track the defects at early stages This avoids the downward flow of the defects.

**Spiral Model :** The spiral model is a risk-driven process model generator for software projects The spiral model has four phases: Planning, Risk Analysis, Engineering.

**Scrum Model :** scrum is a process framework used to manage product development Scrum is empirical in that it provides a means for teams to establish a hypothesis of how they think something works, try it out ,reject on the experience, and make the appropriate adjustments

**10. waterfall model and V model**

|  |  |
| --- | --- |
| **Waterfall** |  **V-Model** |
| * Waterfall is an traditional model and it follows a structured approach with each phase having specific deliverables.
* we work in phase wise once the phase is complete, we will take review -once the completion of the 1st phase only 2nd phase will start.
* It’s cheaper than the V Model.
* It’s not flexible as changes in between cannot be initiated in between.
 | * It is an verification and validation model in which each phase must be completed so that next phase begins Testing of the product is planned in parallel with a corresponding phase of development in V-model.
* In V model after one phase is completed then we will do design and testing and then only we can start with the next phase.
* Its more costly compared to waterfall model.
* Its more flexible we can update changes in between.
 |

**11. Justify your choice :**

we will use V model because this type of project is quite new for the company and its require more time on design and testing so In V model after one phase is completed then we will do design and testing and then only we can start with the next phase.

**12. Gantt Chart :**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PM** |  |  |  |  |  |  |
| **BA** |  |  |  |  |  |  |
| **JAVA Developer** |  |  |  |  |  |  |
| **Testers** |  |  |  |  |  |  |
| **DB Admin** |  |  |  |  |  |  |
| **NW Admin** |  |  |  |  |  |  |

**13. Fixed Bid project Vs Billing Project :**

**Fixed bid Project** :

In Fixed bid, based on the milestones the funds are being released.

for ex-1st part documentation completed 20,000$ then after design phase completed 25,000$ and soon.

Time and budget is fixed in this process

**Billing Project** :

 In billing projects, the funds are being released on the amount of work the team have been worked. EX-Suppose 8hour working day MR.A, MR.B,MR.C and MR.D are working then it will be (8x4=32)-Bill the client as per the resources and paid according to hours worked by the employees.

**14**. **Timesheets :-**

Employee Name : Veera Date10/02/25

Role: BA

Project No : 0567 Type : **Requirement Gathering**

|  |  |
| --- | --- |
| Time |  |
| 9.00 to 11.00 | Did SWOT Analysis of the project |
| 11.00 to 12.00 | Worked on BA approach strategy |
| 12.00 to 14.00 | Stakeholder analysis |
| 14.00 to 16.00 | Requirement gathering |

**Requirement Analysis Of BA**

Employee Name : Veera Date11/02/25

Role: BA

Project No : 0567 Type : **Requirement Analysis**

|  |  |
| --- | --- |
| Time |  |
| 9.00 to 11.00 | Validated the requirement |
| 11.00 to 12.00 | Verify the requirement |
| 12.00 to 14.00 | organized the requirements |
| 14.00 to 16.00 | prepared use case |
| 16.00 to 18.00 | prepared query log |

**Design timesheet of BA**

Employee Name : Veera Date12/02/25

Role: BA

Project No : 0567 Type : **Design Stage**

|  |  |
| --- | --- |
| Time |  |
| 9.00 to 11.00 | discussed about the technical design |
| 11.00 to 12.00 | engaged testing team |
| 12.00 to 14.00 | organized the requirement |
| 14.00 to 16.00 | asked about test plans |
| 16.00 to 18.00 | did weekly status meeting |

**Development Timesheet of a BA :**

Employee Name : Veera Date13/02/25

Role: BA

Project No : 0567 Type : **Development Stage**

|  |  |
| --- | --- |
| Time |  |
| 9.00 to 11.00 | unit test plan |
| 11.00 to 12.00 | prepare unit test case |
| 12.00 to 14.00 | ask team test case walk through |
| 14.00 to 16.00 | checked the development stage |
| 16.00 to 18.00 | conducted weekly status meeting |

**Testing Timesheet of a BA**

Employee Name : Veera Date14/02/25

Role: BA

Project No : 0567 Type : **Testing Stage**

|  |  |
| --- | --- |
| Time |  |
| 9.00 to 11.00 | checked the SIT plan |
| 11.00 to 12.00 | went through the test case |
| 12.00 to 14.00 | checked SIT result |
| 14.00 to 16.00 | talked with the testing team |
| 16.00 to 18.00 | weekly review meeting with the testing team |

**UAT Timesheet of a BA**

Employee Name : Veera Date15/02/25

Role: BA

Project No : 0567 Type : **UAT Stage**

|  |  |
| --- | --- |
| Time |  |
| 9.00 to 11.00 | checked with BRD that requirements are being fulfilled |
| 11.00 to 12.00 | had brief discussion with client about the project |
| 12.00 to 14.00 | checked the project in front of client |
| 14.00 to 16.00 | had signoff meeting |
| 16.00 to 18.00 | conducted weekly status meeting |

**Deployment n Implementation Timesheet of a BA**

Employee Name : Veera Date16/02/25

Role: BA

Project No : 0567 Type : **Deployment n Implementation**

|  |  |
| --- | --- |
| Time |  |
| 9.00 to 11.00 | discussed with the team about the project |
| 11.00 to 12.00 | the project got initiated by the client |
| 12.00 to 14.00 | had made understand client website features |
| 14.00 to 16.00 | had discussion about process change |
| 16.00 to 18.00 | discussed about essential takeouts from the project |