

TEAM: 16

SRNs: PES2UG20CS420,PES2UG20CS436,PES2UG20CS441

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Project Plan Document

Instructions:

- 1: Prepare a detailed plan for your project which comprises of the below mentioned details.
- 2: Upload pdf document through the given link.
- 3: The name of the document should be your Project ID.

Things to be included as part of the project plan.

1: Identify the lifecycle to be followed for the execution of your project and justify why you have chosen the model. (Use Degree of certainty)
[PES2UG20CS436]

The lifecycle we used is Agile Methodology and Scrum

Our project is an organic cocomo model.

The features of Agile and Scrum are:

- a)Better Visibility
- b)High Transparency
- c)Allows early identification and easy resolution of problems or issues
- d)Has an exceptional quality.
- e)There is no big bang approach as we don't release the code at the end but release the code in small modules.

2: Identify the tools which you want to use throughout the lifecycle like planning tool, design tool, version control, development tool, bug tracking, testing tool.[PES2UG20CS441]

A. The various tools that we would be using in order to complete our project would be:-

1. Planning tool- JIRA Software.
2. Design tool- Adobe
3. Version control- GitHub
4. Development tool- Python programming language
5. Bug Tracking-

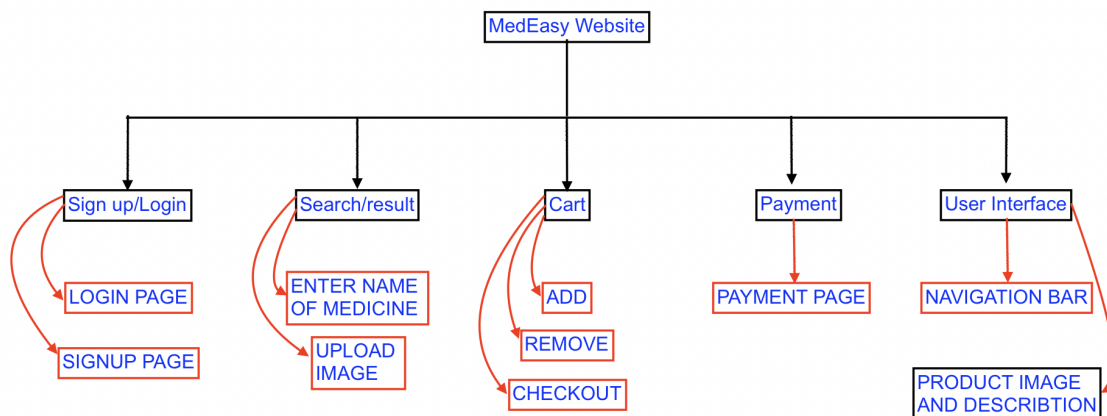
6. Testing Tool-

3: Determine all the deliverables and categorize them as reuse/build components and justify the same.[PES2UG20CS420]

The deliverables include login/sign in page which is a build component, searching for the pharmaceutical product according to the ingredient or the chemical present in the product, add/remove the product in the cart, then payment and delivery, interactive user interface which is user friendly and easy to use. Most of the deliverables mentioned here are reuse based as we are reusing the existing components and makes the web application effective and save a lot of time and effort.

The other deliverables also include project abstract or synopsis, SRS, project planning and design, and the final report. These deliverables are built components as we create these documents from scratch.

4: Create a WBS for the entire functionalities in detail.[PES2UG20CS436]



5: Do a rough estimate of effort required to accomplish each task in terms of person months.(Use BASIC COCOMO)[PES2UG20CS441]

A. Given that our project is an organic CoCoMo project, and there are roughly 5 KLOC.

So, $\text{Effort} = a * (\text{KLOC})^b$

For Organic model, $a=2.4$ $b=1.05$

$\text{Effort} = 2.4 * (2)^{1.05}$

$\text{Effort} = 4.96$ Person Months (PMs)

$$\text{Time} = c * (\text{Effort})^d$$

For Organic Model, $c=2.5$, $d= 0.38$

$$\text{Time} = 2.5 * (4.96)^{0.38}$$

Time=4.59 Months.

Person Required= Effort/Time

$$= 4.96 / 4.59 = 2 \text{ persons}$$

But since we have a three membered team, it would roughly take around 2 months.

6: Create the Gantt Chart for scheduling using any tool.[PES2UG20CS420]

