

UNIVERSITY PARTNER



Project and Professionalism (6CS020)

Project Management Document

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Chosen project methodology Framework

Water fall methodology

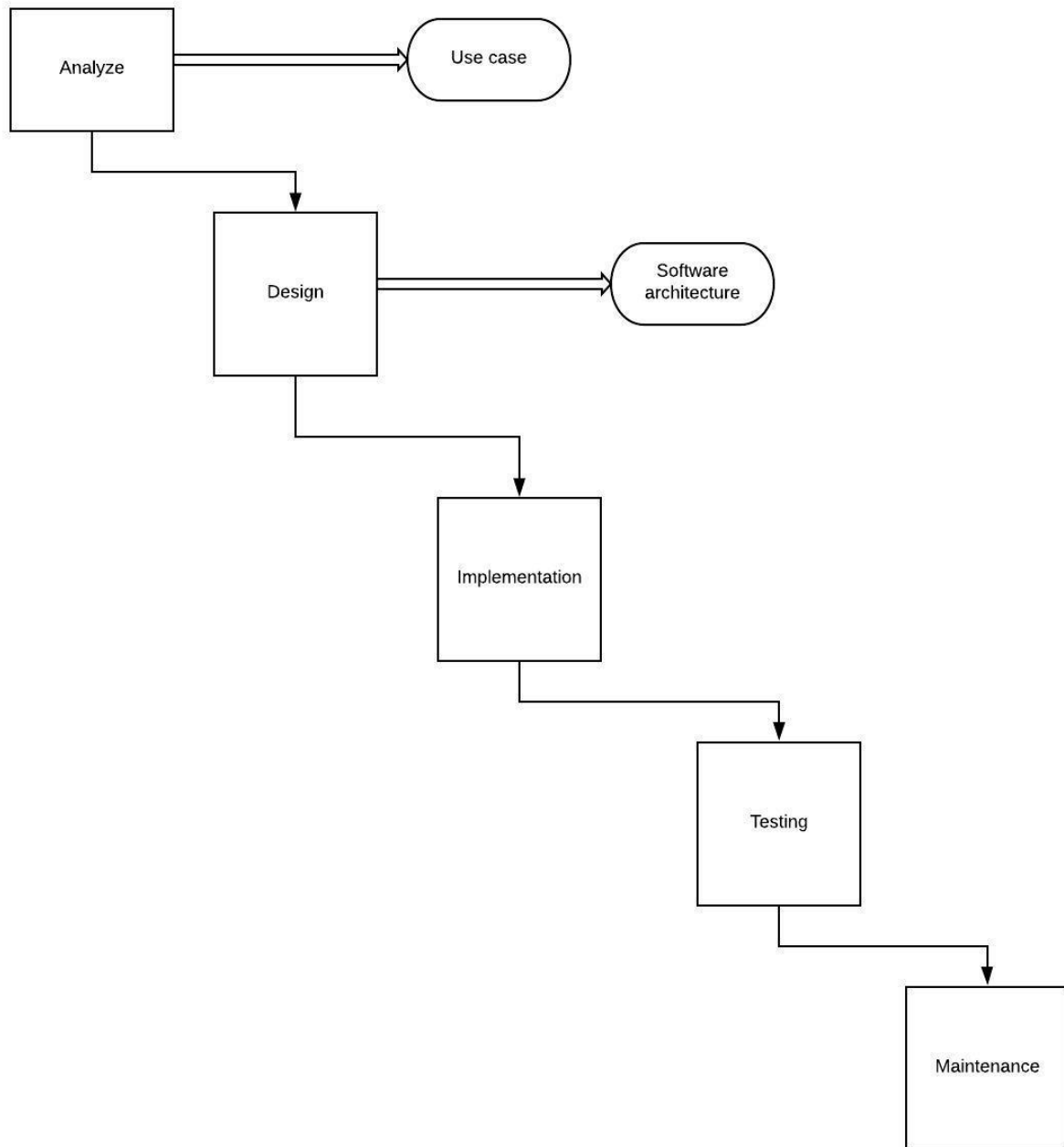


Figure 1: Waterfall Methodology

Justification for choosing waterfall methodology.

Methodology that is chosen for this project is Waterfall model. Development of an artifacts is not an easy task. As adequate research was done for whole system development from selection of framework, language, AI algorithms, this system was fixed to be done with the methodology of waterfall. Waterfall is the type of methodology in which all steps has to carried out one after another in a sequence and one can shift to next step only after completing the current step completely. After going to the next step, returning to previous step is prohibited.

To choose the waterfall model, all the research and planning for each step needed to be fixed. As research for this project was started in 4th semester in Research and Development module, coming to final year there was an adequate time for detail study of identification of scope, resources planning, selection of model and algorithm. Research done for 2 semesters helped to set a fix the scope and set the exact target. Because of this reason, water fall was selected and project has been completed accordingly.

As all the steps are rigid and fixed, it becomes easy to visualize, manage and carry out the whole project in one single flow. The project does not get messed and distracted from another task as waterfall works are processed to do one work at a time. Documentation management is also easy in waterfall as documentation from beginning can be made without the amendment in later part of the project.

Work break down structure

Tabular Work Break Down Structure

Level 1	Level 2	Level 3
1) Diabetes Detection System	1.1) Analysis	1.1.1) Scope Identification 1.1.2) Feasibility Study 1.1.3) Resource Planning 1.1.4) SRS Document
	1.2) Design	1.2.1) System architecture 1.2.2) Use-case Diagram 1.2.3) DFD
	1.3) Implementation	1.3.1) Developing the working model 1.3.2) Developing the Django framework 1.3.3) System Development
	1.4) Testing	1.4.1) White Box Testing 1.4.2) Black Box Testing
	1.5) Deploying	1.5.1) Evaluation of Final Report

Table 1: Tabular representation of work-break down structure

Brief description of each component of WBS has been done below with the tree-form diagram of WBS.

Tree-form Work-breakdown structure

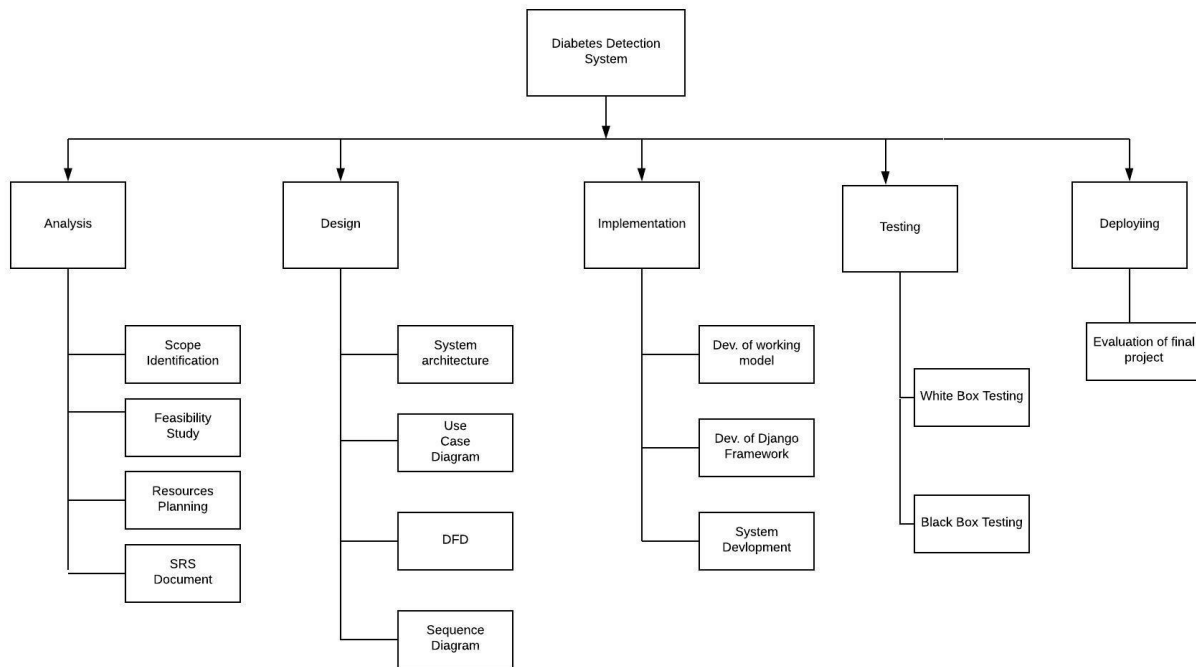


Figure 2: Work break down structure

Work break down structure has been prepared considering the selected methodology of this project. i.e. water fall model. In analysis, scope and feasibility study has been done to set a limitation and target of the project. Planning for the possible require resources has been done by preparing SRS document. In design, visualization part has been covered. Designing of system architecture, use-case, DFD and sequence diagram has been done. Implementation section has been divided into 3 sections. First, development of model, second is development of Django framework and third is integrating both part into final system. Both white box and black box testing has been carried out. Finally, in deploying and maintenance, whole project has been evaluated and analyzed.

Initial Gantt Chart

Starting Date: November 21, 2019

End Date: June 14, 2020

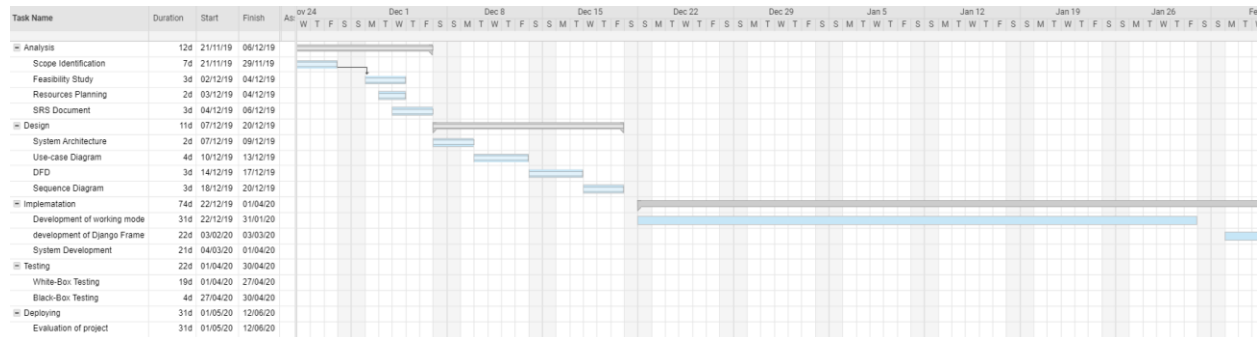


Figure 3 Initial Gantt Chart Representation

Because of extension of deadline due to lockdown of Covid-19, deadline has been extended. Initial deadline was set to May 11 which has been set to Jun 14, 2020 as a new deadline. As 33 days were added, whole project got more time to add and improve the system both from framework and AI-model.

Tracking Gantt Chart

Tracking Gantt chart has two sections. One is 'Plan' and another is 'Actual'. In 'plan', the chart shows the original planned schedule for whole project development. Whereas in 'Actual', the chart shows the amount of work that has been completed in compare to planned schedule. In chart, Orange arrow bar shows the planned schedule whereas black arrow bar shows the work completed in corresponding to the schedule.

Plan:

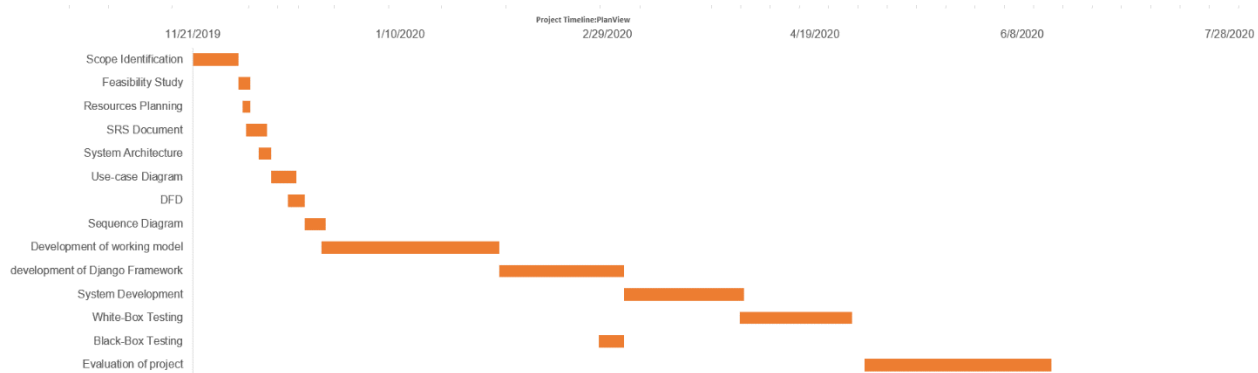


Figure 4: Tracking Gantt Chart Representation: Plan

Figure 4 shows the planned schedule of the project. Below, in figure 5, The chart looks slightly different as many amendments have been made in the schedule. **The major changes** are, '**development of the Django Framework**' has been started much earlier than planned. It has been done parallelly with '**development of working model**' and another major change is the '**evaluation of project**'. Initially, it was planned to evaluate the project directly at the end of the project but evaluation has been done since the beginning of the development of model and Django.

Actual:

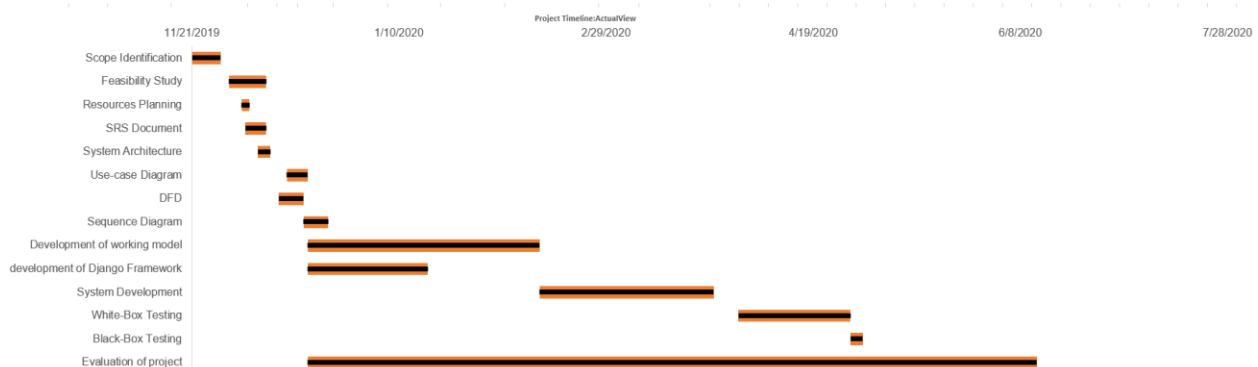


Figure 5: Tracking Gantt Chart Representation: Actual

From figure 5, we can see that from 14/8/20, the chart is blank and has no arrow bar. This is because of the extended deadline due to Covid-19. The extra time was utilized to flourish the project further more.

Log Book

Log Book no. 1

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/03/08

Meeting Agenda:

- Showcasing model's accuracy of two different algorithms.

Any Deliverable:

- Neural network.
- Logistic regression.
- Testing modules of both models.

Feedback from Supervisor:

- Increase the number of training data set.

Tasks for Next meeting:

- Increase training dataset.
- Apply other machine learning algorithms.

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/03/18

Meeting Agenda:

1. To show the proto type of web application.

Any Deliverable:

1. Introduction section of report.

|

Feedback from Supervisor:

1. Interaction of every page.
2. Interaction with back end.

Tasks for Next meeting:

1. Complete front-end and Django.

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/03/31

Meeting Agenda:

1. Analysis of model's accuracy.

Any Deliverable:

1. Neural network.
2. Naïve Bayes.

Feedback from Supervisor:

1. Both of the accuracies are acceptable. Saving the model was a good idea. I would like you to finish on your model now and start the UI design too.

Tasks for Next meeting:

1. Complete the model.
2. Start UI design.

|

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/04/14

Meeting Agenda:

1. Review for scope, limitations and structure of report.
2. Review for literature of review.

Any Deliverable:

1. Literature review.
2. Final model.

Feedback from Supervisor:

1. You can add more points on the limitations section. This is because, there might be some feature that you are not able to complete.
2. Along with development of the system, please make test cases in tabular format for the testing you have done so far.
3. Finally, divide the literature review sections into 3 different sub sections with systems you studied for developing the system. Also include the images of those systems if you can.

Tasks for Next meeting:

1. Complete the literature review and test cases.
-

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/04/29

Meeting Agenda:

1. Reviewing similar systems, comparison table and analysis.
2. Explanation of neural network

Any Deliverable:

1. Designing UI and wireframe of web-pages
2. Final literature review

Feedback from Supervisor:

1. Designing look good. Proceed to Django.
2. Literature review is fine.

Tasks for Next meeting:

1. Complete the web-pages and connect all web-pages
 2. Start the main content section of main report.
-

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/05/06

Meeting Agenda:

1. "Main Content" section of report
2. Methodology selection, WBS, SRS Document, URL diagram

Any Deliverable:

1. Django section
2. Main content section

Feedback from Supervisor:

1. In waterfall add 'maintenance' as well, its mandatory to add even if we do not use.
2. Move all the diagram from analysis to design
3. In use case, change the icon of secondary actor.

Tasks for Next meeting:1

1. Modify all the diagrams.
 2. Mention the system architecture, wire frame and try to complete main content section.
-

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/05/13

Meeting Agenda:

1. Review for all diagrams
2. Review for main content section
3. Review for final Django part

Any Deliverable:

1. Django
2. Main content
3. Data dictionary

Feedback from Supervisor:

1. Django looks fine. Proceed for integration process.

Tasks for Next meeting:

1. Complete the main content section completely.
 2. Add testing section with 3-4 test samples in tables.
-

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/05/20

Meeting Agenda:

1. Review for testing section
2. Review for academic question

Any Deliverable:

1. Testing section
2. Academic question Section

Feedback from Supervisor:

1. Modify the academic question.

Tasks for Next meeting:

|

1. Try to complete the report.

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/05/27

Meeting Agenda:

1. Review for final report.

|

Any Deliverable:

1. Report.

Feedback from Supervisor:

1. Everything looks good. Add weakness and strength of the system in Critical Evaluation section.

Tasks for Next meeting:

1. Final review of FYP.

Logbook Entry Template

Student Name:	Shreejan Shrestha	Supervisor:	Hemanga Gautam
Student No:	1928579	Date:	2020/06/03

Meeting Agenda:

1. Review of final report.
2. Review of system.

Any Deliverable:

1. Final report.

Feedback from Supervisor:

1. Try to integrate Django and model.