A

PROJECT SYNOPSIS

ON

“Campus Guide"

submitted in partial fulfillment of the requirement for the award of degree of

BACHELOR OF TECHNOLOGY

IN

Computer Science & Engineering

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References (In Standard Format)

Project Title:

Campus Guide

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Front End: Python for Graphical User interface
Back End Connectivity: Python Programming
Framework required: Tkinter, Pandas, SQLite3

ABSTRACT

This project is based on COLLEGE DATABASE MANAGEMENT SYSTEM.
It will manage all the information related to the students like admission details, their opted branch and department details, Residential details, Contact information, Opted transportation details, Fee details and much more.

This project is consist of various features like admission, library management, fee management, transport management, students desk, allows students to use it by their username and password and similar for the staff members.
In our model, it deals with the Operations in system. For example, when students fill the registration form the record is stored in the database and is displayed according to performed fetch operation.

OBJECTIVE & SCOPE

To implement a dedicated college database management system using python.

Scope:

The main idea is to implement a proper process to system. In our existing system contains a many operations registration, student search, fees, attendance, exam records, performance of the student etc.

The main objectives of the system are :-

1. To reduce paperwork.
2. Reduced operational time.
3. Increased accuracy and reliability.
4. Increased operational efficiency.
5. Data security
6. Reliable for student and staff members to create account

INTRODUCTION

PURPOSE OF THE PROJECT

This project deals with the various functioning in College management process. The main idea is to implement a proper process to system. In our existing system contains a many operations registration, student search, fees, attendance, exam records, performance of the student etc. All these activity takeout manually by administrator.

In our model, it deals with the Operations in system. For example, when students fill the registration form the record is stored in the database. And display the details of student is perform by retrieving information from database table.

TECHNICAL DETAILS

SOFTWARE REQUIREMENTS:

Microsoft Windows 10

HARDWARE REQUIREMENTS:

Minimum Space required 125Mb

Minimum RAM supported 1GB

The system will run on Windows operating system.

METHODOLOGY

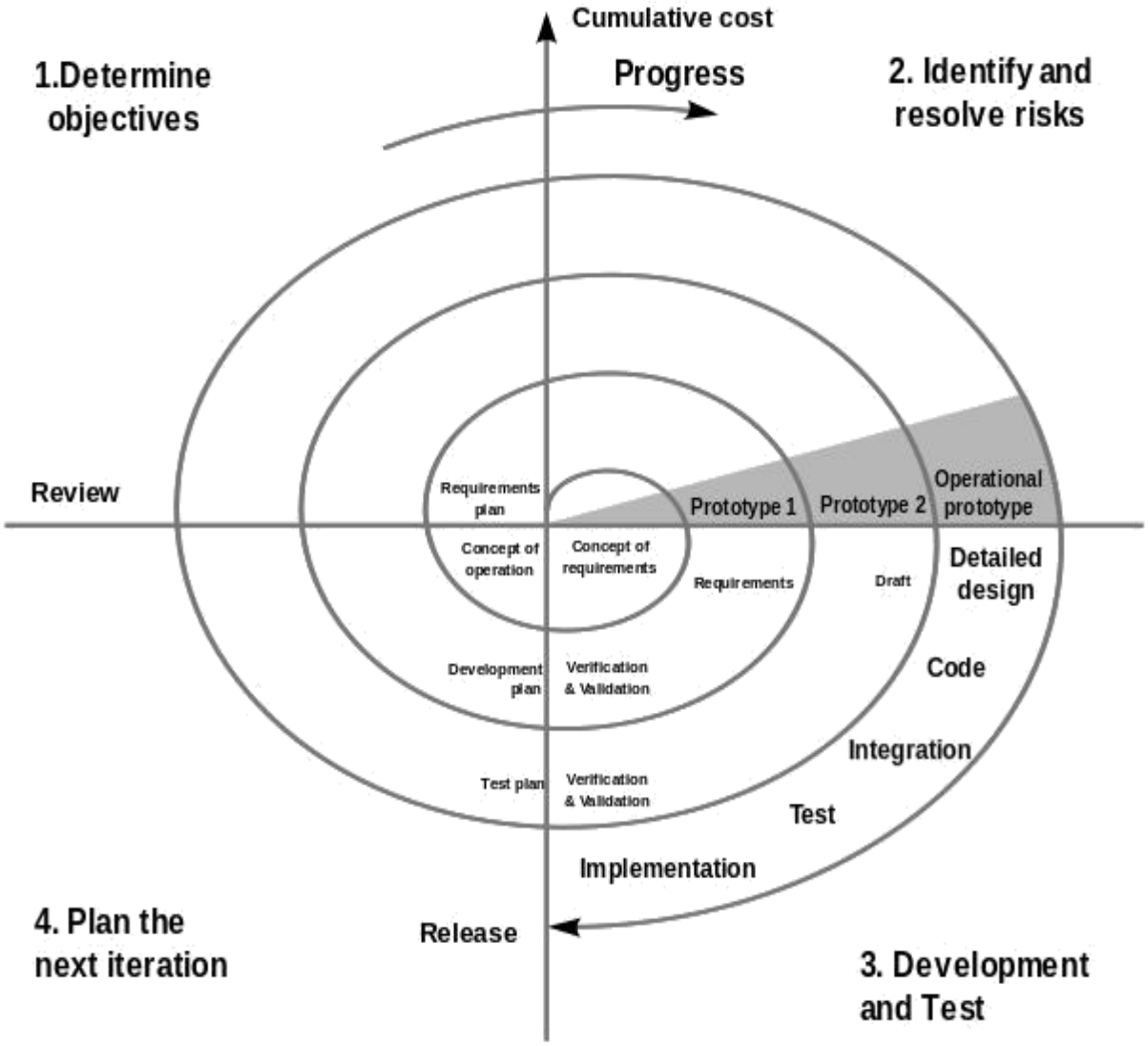
The campus guide is complicated project. This project cannot be done in one iteration because it contains various sub modules and each time we have to produce a prototype of the project.

The spiral model combines the idea of iterative development (prototyping) with the systematic, controlled aspects of the waterfall model. It allows for incremental releases of the product, or incremental refinement through each time around the spiral. The spiral model also explicitly includes risk management within software development. Identifying major risks, both technical and managerial, and determining how to lessen the risk helps keep the software development process under control.

The spiral model is based on continuous refinement of key products for requirements definition and analysis, system and software design, and implementation (the code). At each iteration around the cycle, the products are extensions of an earlier product. This model uses many of the same phases as the waterfall model, in essentially the same order, separated by planning, risk assessment, and the building of prototypes and simulations.

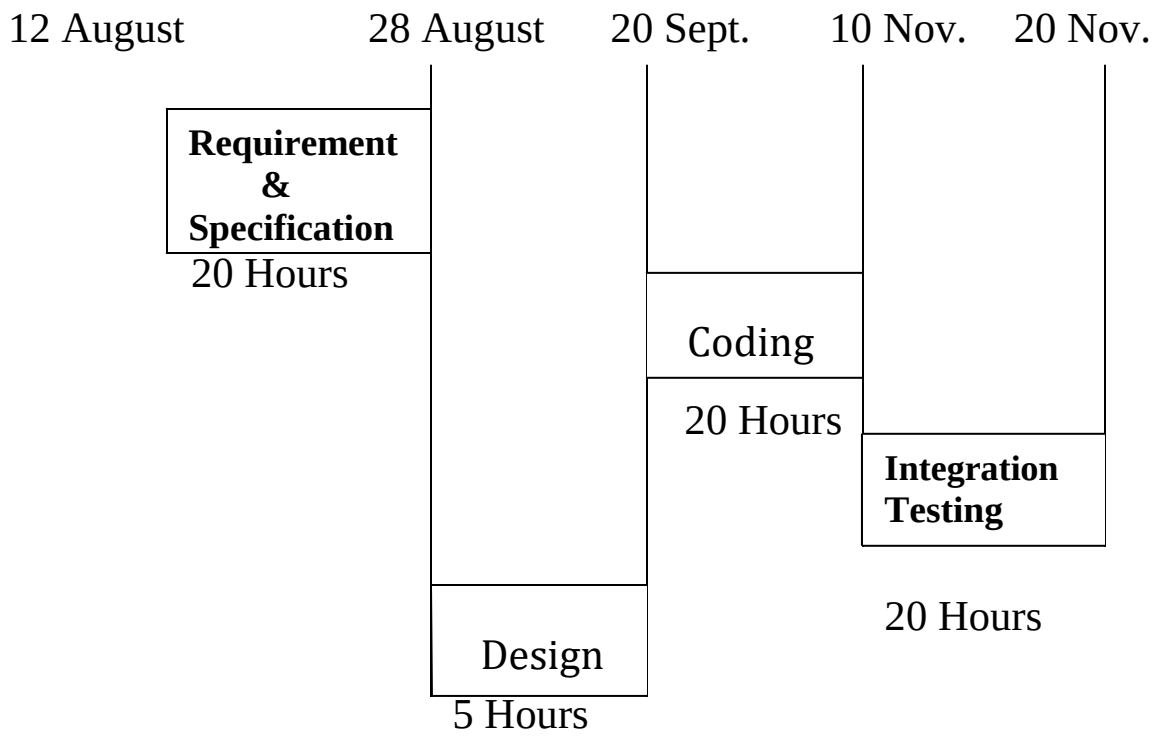
Documents are produced when they are required, and the content reflects the information necessary at that point in the process. All documents will not be created at the beginning of the process, nor all at the end (hopefully). Like the product they define, the documents are works in progress. The idea is to have a continuous stream of products produced and available for user review. The spiral lifecycle model allows for elements of the product to be added in when they become available or known. This assures that there is no conflict with previous requirements and design. This method is consistent with approaches that have multiple software builds and releases and allows for making an orderly transition to a maintenance activity. Another positive aspect is that the spiral model forces early user involvement in the system development effort. For projects with heavy user interfacing, such as user application programs or instrument interface applications, such involvement is helpful.

Steps of the Spiral Model:



GANTT CHART

Gantt charts are useful for scheduling budgeting and resource planning. A GANTT is a type of BAR chart where each chart represents activity. The bars are drawn along a time line. The length of each bar is proportional to the duration of time plan for the corresponding activity. In the GANTT chart used for software project management each bar consist of a white part and a shaded part. The white part of the bar shows the length of time each task is estimated to take. The shaded part shows the slack time i.e. the latest time by which the task must be finished. According to the problem, one engineer can do the database design and code whereas another engineer can design GUI part, code the GUI part and still have the time left for writing the user manual.



REFERENCES

1. PyCharm IDE (www.jetbrains.com)
2. Udacity.com (www.udacity.com)
3. Python 3.x (www.python.org)
4. Wikipedia (www.wikipedia.com)
5. Stack overflow(www.stackoverflow.com)