**SYSTEM DESIGN**

1. **Introduction**

When the requirements document for the software to be developed is available the design activity begins. The main aim of design process is to produce a model or representation of the system, which can be used later to bind the system. The produced model is called design of the system. A system design is a top down approach to minimize complexity and make a problem manageable by subdivided it into smaller segments.

The most changing phase of the system development of life cycle is system design. It refers to the technical specification that will be applied in implementing the candidate system. The design phase is a translation from user oriented document to document oriented to programmers. The potential objects are thoroughly analyzed. Class hierarchies are to check whether the system is behaving the way it has to. There after the classes are individually tested and subsequently they are integrated from the overall system. This level focuses on deciding which modules are needed for system the specifications for those modules and how these modules are that interconnected.

**Logical Design:**

A logical data flow diagram shows the flow of data through a transaction processing system without regard to the time period when the data flows or the processing procedures occur.

**Physical Design:**

The physical design maps out the details of physical systems, plans the system implementations, device a test and implementation plan and specifies any new hardware and software.

**Objective of the system:**

The main purpose of creating Campus Networking Site is for meeting

worldwide college students and sharing knowledge, education related information’s,

etc. It contains standard social network content, like profiles, pictures, email and

groups, and video sharing, articles, etc. Student can create a profile, browse locations

worldwide, share and collect knowledge, education related tutorials, etc.

**2.Applicable document:**

**Profile detail**: It holds student profile information.

**Education detail**: It has education articles, tutorials, videos ,photos and any other information.

**Upload detail**: It holds uploaded images, videos, tutorials and any other information’s .

**3.Functional decompositions:**

* Student profile.
* Education profile.
* Education articles.
* Images, videos, etc..
* Quiz, question-answers etc..

**4.Functional components and design assumptions.**

The Campus network can help you maintain existing relationships with people and share pictures and messages, and establish new ones by reaching out to people you've never met before, an also using this site user can share Knowledge’s, education related books, question/answer, and any other information.

**Some of the symbols used in data flow diagram**

|  |  |
| --- | --- |
|  | The process shows a transformation or manipulation of dataflow with in a system. A process transforms in coming data flow into out going data flow. |
| Database | A database is a holding place for information within the system it is represented by an open ended narrow rectangle. |
| External entity | External entities are outside the system but they either supply input data into the system or use the system output. External entities are represented by rectangle. |
| Dataflow | a dataflow shows flow of information form source to destination a data flow represented by a line, with arrow heads showing the direction of the flow. |

**5.Description of the program**

The customer switch diagram for online campus networking is shown in the figure below. The input and output of this section is shown in the diagram, however no of details about the function of the online campus networking system is given here. Using this as a starting point, a logical DFD of the system is developed.

**5.1Context flow diagram:**

The environment in which the software used is depicted in this picture. The CFD shows the external entity action on the software is shown here in CFD as a single process.

**5.2 Top level DFD:**

Top level DFD shows the functional component in the software package. each component shown in the top level DFD is described in the subsections of 2.3

**5.3 Description of the components**

**5.3.1 Functional component 1: Student Profile**

**Input- Student adds profile information and education details .**

**Process- System checks previous student account and education details.**

**Output- Student can view education detail and profile details.**

**5.3.2 Functional component 2: Tutorials**

**Input- Student uploads education articles,tutorials,images,videos ..etc.**

**Process- System uploads education articles,tutorials,images,videos to database.**

**Output- Student can view uploaded education articles,tutorials,images,videos ..etc..**

**5.3.3 Functional component 3: Admin**

**Input- Admin can upload and share video tutorials,question papers,books..etc.**

**Process- System uploads education tutorials,question papers,books to database.**

**Output- Student can view uploaded tutorials,question papers,books..etc..**