

GOVERNMENT ENGINEERING COLLEGE, DAHOD (018)

COMPUTER ENGINEERING DEPARTMENT (07)

SUBJECT:SOFTWARE ENGINEERING(2160701)

PRACTICAL LIST

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Sr. No	TITLE
1	<b>Study</b> the complete Software Development Life Cycle (SDLC) and analyze various activities conducted as a part of various phases. For each SDLC phase, <b>identify</b> the objectives and <b>summaries</b> outcomes.
2	Prepare an E-R diagram for a simple Library Management System.
3	Prepare an E-R diagram for a Hospital Management System.
4	Draw E-R Diagram for university result system
5	Develop a complete Use Case System for ATM machine.
6	Prepare a state diagram for Microwave Oven showing all states of it.
7	Draw context diagram and data flow diagram (DFD) for Airlines Reservation System.
8	What is activity diagram and swim-lane diagram? Draw activity Diagram for Billing Counter of a shopping mall.
9	Explain functional modeling of a system. Draw data flow diagram for anATM machine.
10	<b>Consider</b> any project to be developed in any technology as a Software Architect or Project Manager. <b>Construct</b> Software Requirement Specification (SRS) document for the project.
11	Construct SRS for any project as per your convenience.
12	Develop a complete test strategy for the system which is known to you.
13	Explain Feasibility Study of College Management System.
14	Explain Feasibility Study of Hospital Management System

15	<p>A Library lends books and magazines to member, who is registered in the system. Also it handles the purchase of new titles for the Library. Popular titles are bought into multiples copies. Old books and magazines are removed when they are out of date or in poor condition. A member can reserve a book or magazine that is not currently available in the library, so that when it is returned or purchased by the library, that person is notified. The library can easily create, replace and delete information about the titles, members, loans and reservation in the system.</p> <p><b>Prepare Software Requirement Specification and Use Case Diagram.</b></p>
16	<p>Software is to be developed for hotel management system in which information is provided for all type of activities conducted in hotel. The major users of the system are hotel staff, people who stay in the hotel and people who visit the restaurant. Information for the billing system, hotel account management, staff salary, hotel menu information, hotel room information is provided by software.</p> <p><b>Prepare Software Requirement Specification and Use Case Diagram.</b></p>
17	<p>Explain Feasibility Study with the example of ATM Machine in Banking System. Draw use case diagram of ATM Machine.</p>
18	<p>List five requirement of Library management System. Draw DFD level-0 and DFD Level-1 for Library Management System</p>
19	<p>Explain Functional Requirement and Non Functional Requirement with example of Hospital Management System</p>
20	<p>Explain Functional Requirement and Non Functional Requirement with example of Mobile Device</p>
21	<p>Consider a project to develop a text editor. Major modules of project are:</p> <ol style="list-style-type: none"> <li>1. Menu Panel (size 9KB)</li> <li>2. Text editing window (size 4 KB)</li> <li>3. Short cut keys handler (size 6 KB).</li> </ol> <p>Use COCOMO to determine the overall cost of the project and duration of development.</p>
22	<p>To Study the Risk Management During The Software Development.</p>
23	<p>To Study Software Testing, Black-box and White-box Testing and Different Types of Testing.</p>