



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management



Experiment No	8
Title of Experiment	Develop a Data Flow Diagram (Process-Up to Level 1)
Name of the candidate	Aniket Mishra
Team Members	G. Avinashh, Prachi Pandit
Team Name	Find Your Air(F.Y.A)
Register Number	RA2011003010098
Date of Experiment	25.5.2022

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

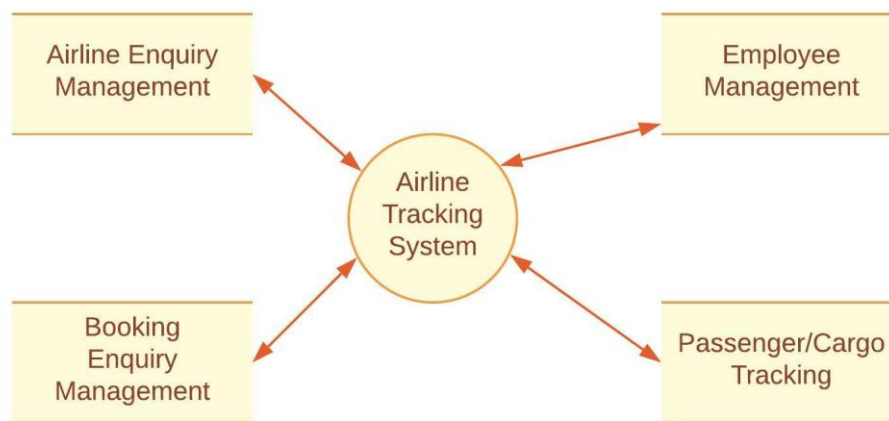
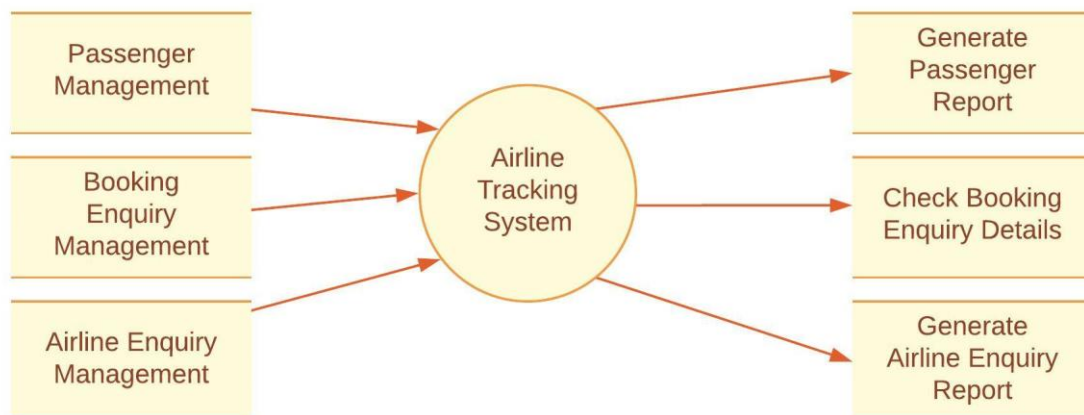
Staff Signature with date

Aim:

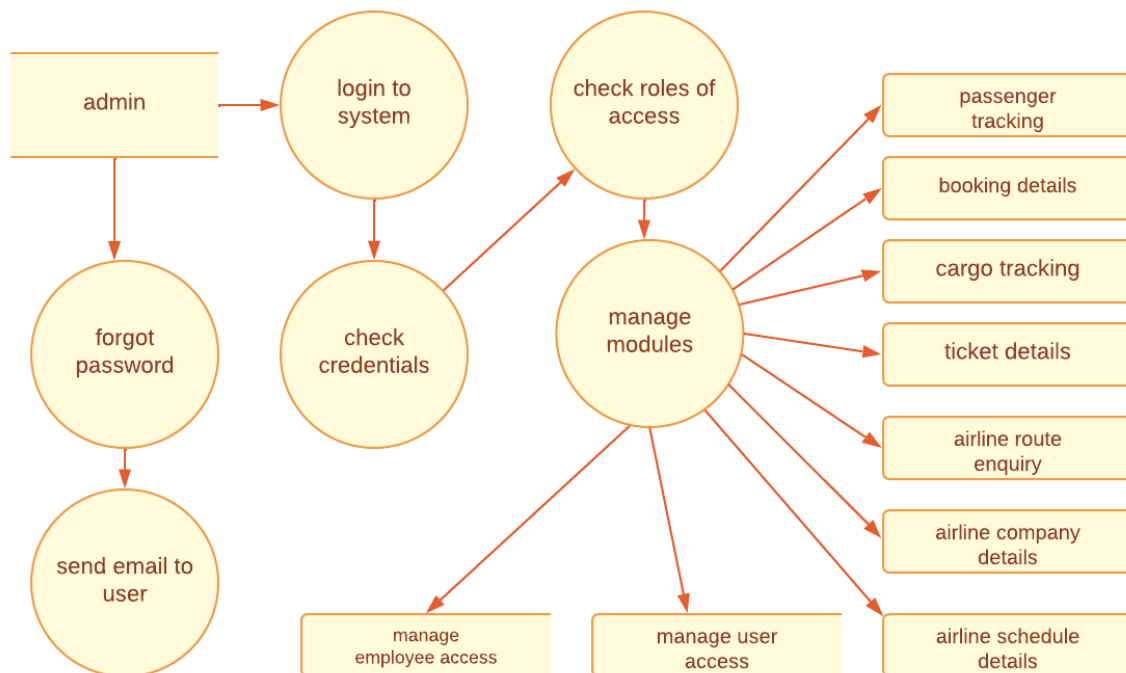
To develop the data flow diagram up to level 1 for the airline tracking system.

Team Members:

S No	Register No	Name	Role
1	RA2011003010085	Prachi Pandit	Rep
2	RA2011003010080	G. Avinashh	Member
3	RA2011003010098	Aniket Mishra	Member

Zero Level Data Flow Diagram:**First Level Data Flow Diagram:**

Second Level Data Flow Diagram:



Result:

Thus, the data flow diagrams have been created for the <project name>.

Data Flow Diagram

The DFD takes an input-process-output view of a system. That is, data objects flow into the software, are transformed by processing elements, and resultant data objects flow out of the software. Data objects are represented by labeled arrows, and transformations are represented by circles (also called bubbles). The DFD is presented in a hierarchical fashion. That is, the first data flow model (sometimes called a level 0 DFD or context diagram) represents the system as a whole. Subsequent data flow diagrams refine the context diagram, providing increasing detail with each subsequent level.

The data flow diagram enables you to develop models of the information domain and functional domain. As the DFD is refined into greater levels of detail, you perform an implicit functional decomposition of the system. At the same time, the DFD refinement results in a corresponding refinement of data as it moves through the processes that embody the application.

A few simple guidelines can aid immeasurably during the derivation of a data flow diagram:

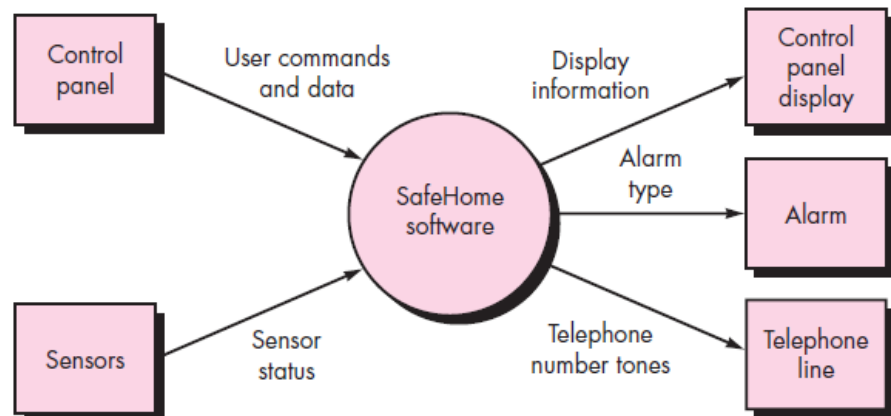
- (1) Level 0 data flow diagram should depict the software/system as a single bubble;
- (2) Primary input and output should be carefully noted;
- (3) Refinement should begin by isolating candidate processes, data objects, and data stores to be represented at the next level;
- (4) All arrows and bubbles should be labeled with meaningful names;
- (5) Information flow continuity must be maintained from level to level and

(6) One bubble at a time should be refined. There is a natural tendency to overcomplicate the data flow diagram. This occurs when you attempt to show too much detail too early or represent procedural aspects of the software in lieu of information flow.

*/ For Example

DFD Level 0

Context-level
DFD for the
SafeHome
security
function



DFD Level 1

Level 1 DFD for
the *SafeHome*
security
function

