

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

CSE 3001

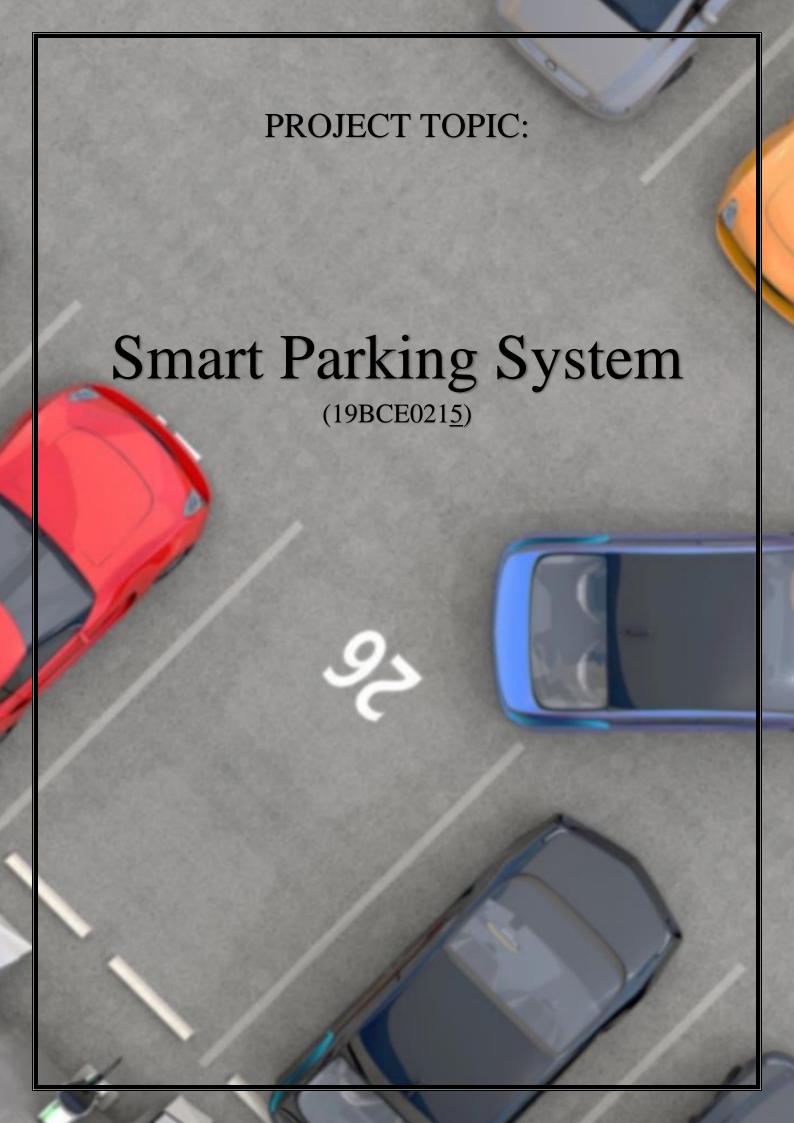
Software Engineering

LAB ASSESSMENT - 2

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1. Identify the Functional and Non-functional Requirement

Functional requirement

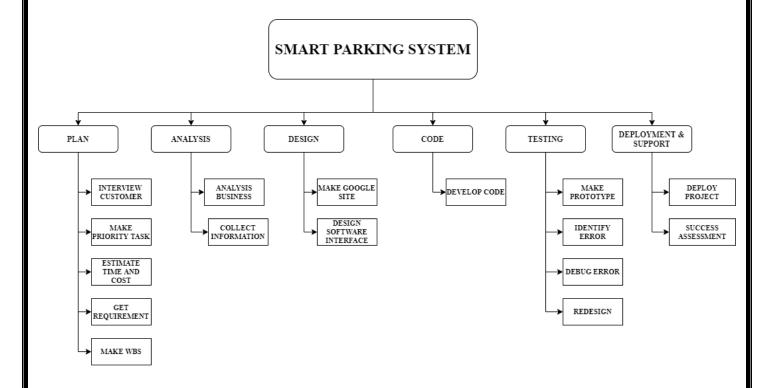
- ✓ It can show an available space for parking a car.
- It can synchronize with sensor for preventing robbery purpose.
- ✓ It can memorize location of user's car.
- It can calculate parking fee.

Non-functional requirement

- Registration is required for keeping data.
- ✓ It must display the parking lot map in real-time (if possible)
- The time must be based on GMT.

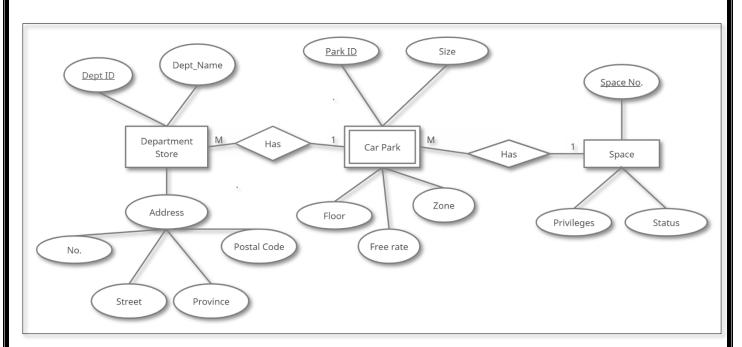
2. Draw the WBS

Work Breakdown Structure:



3. Draw the ER or DFD

ER Diagram:



ENTITIES:

- Department Store
 - o <u>Dept_ID</u> (Primary key)
 - o Dept_Name
 - Address
 - ➤ No.
 - > Street
 - > Province
 - ➤ Postal Code
- Car Park (Weak Entity)
 - o Park_ID (Primary key)
 - o Size
 - o Floor
 - o Free Rate
 - o Zone
- Space
 - o Space_No. (Primary key)
 - o Privileges
 - o Status

RELATIONS:

- Department Store has Car Park (Many to One).
- Car Park has Space (Many to One).