

**A
SYNOPSIS
ON
COMPUTER SCIENCE PORTAL - (CSP)**

**SUBMITTED IN PARTIAL FILFILLMENT OF THE REQUIRENMENT FOR PROJECT
SUBMISSION IN THE DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING**

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INTRODUCTION

The ultimate resource to prepare for coding interviews. Everything you need, in one streamlined platform.

CSP is an interview prep platform for software engineers. It's specifically geared towards those who want to work at a FAANG-level company. Featuring a robust interactive coding preparation environment.

OBJECTIVE OF THE PROJECT

CSP provides links to Computer Science learning resources that have been developed by the various Computer Science content development projects. The main content development project is the School of Computer Science. This portal features exciting examples of Computer Science learning resources. CSP participants who are interested in Computer Science are invited to create and participate in learning projects and learning resources and help organize them by developing this portal. We're just starting, but we already have some good materials. The Computer Science Portal serves to provide quick access to everything in the Computer Science category.

SYSTEM SPECIFICATIONS

Windows® :

Important: We will continue to fully support Chrome on Windows 7® for a minimum of 24 months after Microsoft's End of Life date, until at least January 15, 2022.

To use Chrome Browser on Windows®, you'll need:

- Windows 7, Windows 8, Windows 8.1, Windows 10 or later
- An Intel Pentium 4 processor or later that's SSE3 capable

Note: Servers require Windows® Server 2008 R2, Windows® Server 2012, Windows® Server 2012 R2, or Windows® Server 2016.

Mac® :

To use Chrome Browser on Mac®, you'll need:

- OS X El Capitan 10.11 or later

Linux® :

To use Chrome Browser on Linux®, you'll need:

- 64-bit Ubuntu 14.04+, Debian 8+, openSUSE 13.3+, or Fedora Linux 24+
- An Intel Pentium 4 processor or later that's SSE3 capable.

Technology Used:-

Language :- Html, CSS, JavaScript , React

Backend :- NodeJs / Django

System Requirement:-

Minimum RAM:-1 GB

Hard Disk:-40 GB

Processor:-Intel Pentium 4

ER Diagram :-

An Entity Relation(ER) Diagram is a specialized graphics that illustrates the interrelationship between entities in a database. ER diagrams often use symbols to represent 3 different types of information. Boxes are commonly used to represent entities. Diamonds are normally used to represent relationships and ovals are used to represent attributes.

An Entity Relationship Model (ERM), in software engineering is an abstract and conceptual representation of data. Entity Relationship modeling is a relational schema database modeling method, used to produce a type of conceptual schema or semantic data model of a system, often a relation database, and its requirements in a top-down fashion .

➤ **Entity:**

Entity is the thing which we want to store information. It is an elementary basic building block of storing information about business process. An entity represents an object defined within the information system about which you want to store information. Entities are distinct things in the enterprise.

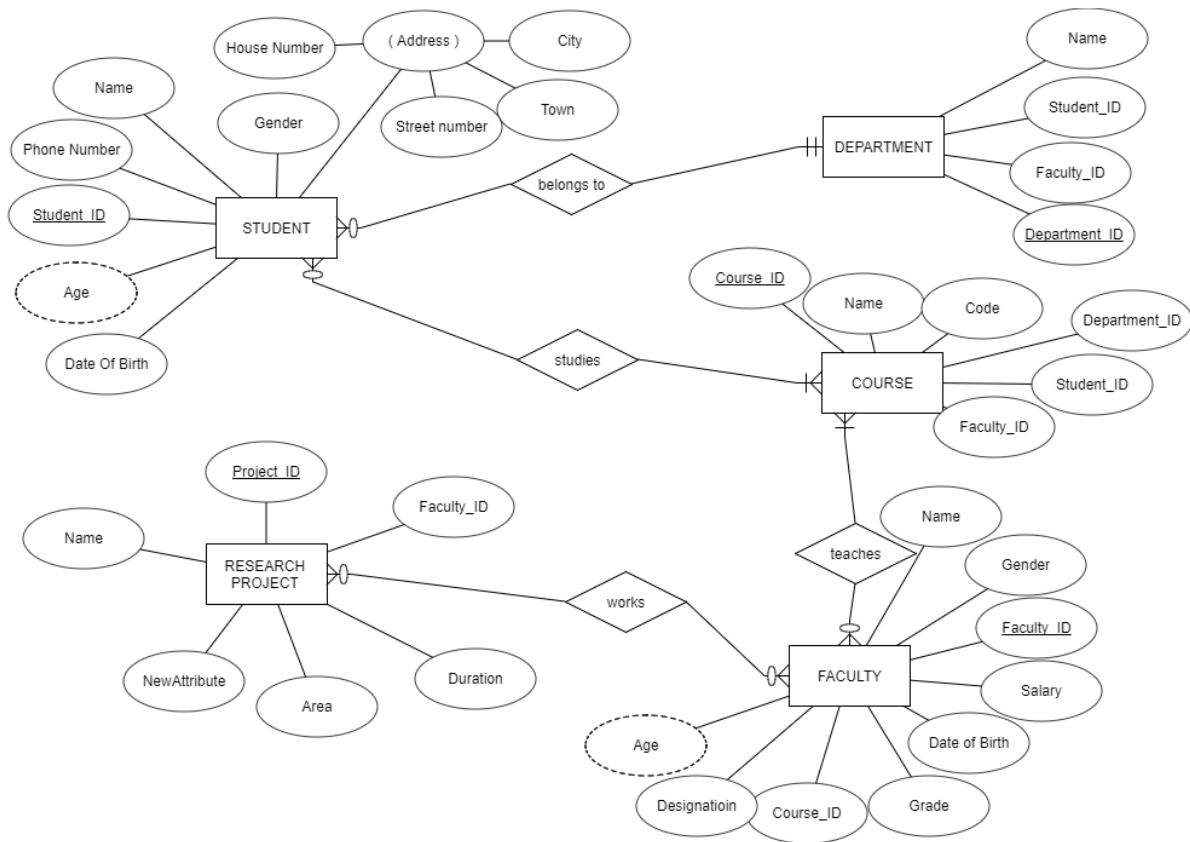
➤ **Relationships:**

A relationship is a named collection or association between entities or used to relate two or more entities with some common attributes or meaningful interaction between the objects.

➤ **Attributes:**

Attributes are the properties of the entities and relationship, Descriptor of the entity. Attributes are elementary pieces of information attached to an entity.

ER DIAGRAM



Data Flow Diagram

A Data Flow Diagram (DFD) is a graphical representation of the "flow" of data through an Information System. A data flow diagram can also be used for the visualization of Data Processing. It is common practice for a designer to draw a context-level DFD first which shows the interaction between the system and outside entities. This context-level DFD is then "exploded" to show more detail of the system being modeled.

A DFD represents flow of data through a system. Data flow diagrams are commonly used during problem analysis. It views a system as a function that transforms the input into desired output. A DFD shows movement of data through the different transformations or processes in the system. Dataflow diagrams can be used to provide the end user with a physical idea of where the data

they input ultimately has an effect upon the structure of the whole system from order to dispatch to restock how any system is developed can be determined through a dataflow diagram. The appropriate register saved in database and maintained by appropriate authorities.

Conclusion:

Computer Science Portal provides links to Computer Science learning resources that have been developed by the various Computer Science content development projects. The main content development project is the School of Computer Science. This portal features exciting examples of Computer Science learning resources. Computer Science Portal participants who are interested in Computer Science are invited to create and participate in learning projects and learning resources and help organize them by developing this portal. We're just starting, but we already have some good materials. The Computer Science Portal serves to provide quick access to everything in the Computer Science category for the quick revision or study of the different types of computer science topics.

GROUP MEMBERS DETAILS:-

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