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University of Toronto Mississauga (UTM)
CSC301 Introduction to Software Engineering
Phase 2 - Main Project

System Design for the project

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Description of Classes / CRC Cards

1.

Class Name	Server
Parent class (if any)	None
Subclasses (if any)	Database, Index, Search, Upload
Responsibilities	Handle requests from clients
Collaborators	None

2.

Class Name	Database
Parent class (if any)	Server
Subclasses (if any)	None
Responsibilities	Sort out the contents in the database/ Accepts queries
Collaborators	Index

3.

Class Name	Index
Parent class (if any)	Server
Subclasses (if any)	None
Responsibilities	Index and sort the files within the database
Collaborators	Database

4.

Class Name	Search
Parent class (if any)	Server
Subclasses (if any)	None
Responsibilities	Search and Queries the database
Collaborators	Database/ Index

5.

Class Name	Upload
Parent class (if any)	Server
Subclasses (if any)	None
Responsibilities	Add content to the database/ Upload files on to the server
Collaborators	Database/ Index

6.

Class Name	Delete
Parent class (if any)	Server
Subclasses (if any)	None
Responsibilities	Deleting the files in the server
Collaborators	Server/ Database

7.

Class Name	RateFile
Parent class (if any)	Client
Subclasses (if any)	None
Responsibilities	Rating the files based on user inputs
Collaborators	Server/ Client/ Database/ Index

8.

Class Name	History
Parent class (if any)	Client
Subclasses (if any)	None
Responsibilities	Show the files that user visited before
Collaborators	Database

9.

Class Name	Tag
Parent class (if any)	Client
Subclasses (if any)	None
Responsibilities	Marking the file that users want to save
Collaborators	Database/ Server/ Client

10.

Class Name	Download
Parent class (if any)	Client
Subclasses (if any)	None
Responsibilities	Downloading the files in the server
Collaborators	Database/ Server

POSSIBILITIES:.....
FOR WEBPAGE DESIGN

11.

Class Name	Home
Parent class (if any)	Client
Subclasses (if any)	Signup
Responsibilities	Load the client's home page which allows a user to login or signup
Collaborators	Dashboard

12.

Class Name	Dashboard
Parent class (if any)	Client
Subclasses (if any)	None
Responsibilities	Gives user the tools that they need and could use on and HTML page
Collaborators	Database/ Home

13.

Class Name	Signup
Parent class (if any)	Home
Subclasses (if any)	None
Responsibilities	Allows a user to sign up as a student or a professor
Collaborators	Database

software architecture diagram

