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# **SOFTWARE DESIGN DOCUMENT**

## **1 INTRODUCTION :**

Entrepreneur – Start, Run and grow your Business.

Entrepreneurship is the process of starting a business, typically a startup company offering an innovative product, process or service. The entrepreneur perceives an opportunity and often exhibits biases in taking the decision to exploit the opportunity. The exploitation of entrepreneurial opportunities includes design actions to develop a business plan, acquire the human, financial and other required resources, and to be responsible for its success or failure. Entrepreneurship may operate within an entrepreneurship ecosystem which includes government programs and services that support entrepreneurs, entrepreneurship resources (e.g., business incubators and seed accelerators), entrepreneurship education and training and financing (e.g., loans, venture capital financing, and grants).

One of the same initiative we have taken to connect Students of DAV Alumni with various Investors and Venture Capitalists.

1. Login/Sign-Up System for Students, Investors, & venture Capitalists.
2. Students, Investors, & venture Capitalists can complete/edit their profile.
3. Students can see the details of all the Investors & venture Capitalists.
4. Students can enter the details of his all team members.
5. Student can post multiple Business ideas along with their Executive Summary.
6. Investor and Venture Capitalist can view and shortlist Ideas.
7. Investor and Venture Capitalist can view them in their Dashboard.

### **1.1 Purpose of this Document**

This document serves as a high level description and detailed design for the project modules.

### **1.2 Scope of the development project**

In India there is a dearth of quality people in industry, which demands high level of entrepreneurship development programme through out the country for the growth of Indian economy.

The scope of entrepreneurship development in country like India is tremendous. Especially since there is widespread concern that the acceleration in GDP growth in the post reforms period has not been accompanied by a commensurate expansion in employment.\\

We have all the requisite technical and knowledge base to take up the entrepreneurial challenge. The success of Indian entrepreneurs in Silicon Valley is evident as proof. The only thing that is lacking is confidence and mental preparation. We are more of a reactive kind of a people. We need to get out of this and become more proactive. What is more important than the skill and knowledge base is the courage to take the plunge. Our problem is we do not stretch ourselves. However, it is appreciative that the current generations of youth do not have hang-ups about the previous legacy and are willing to experiment. These are the people who will bring about entrepreneurship in India.

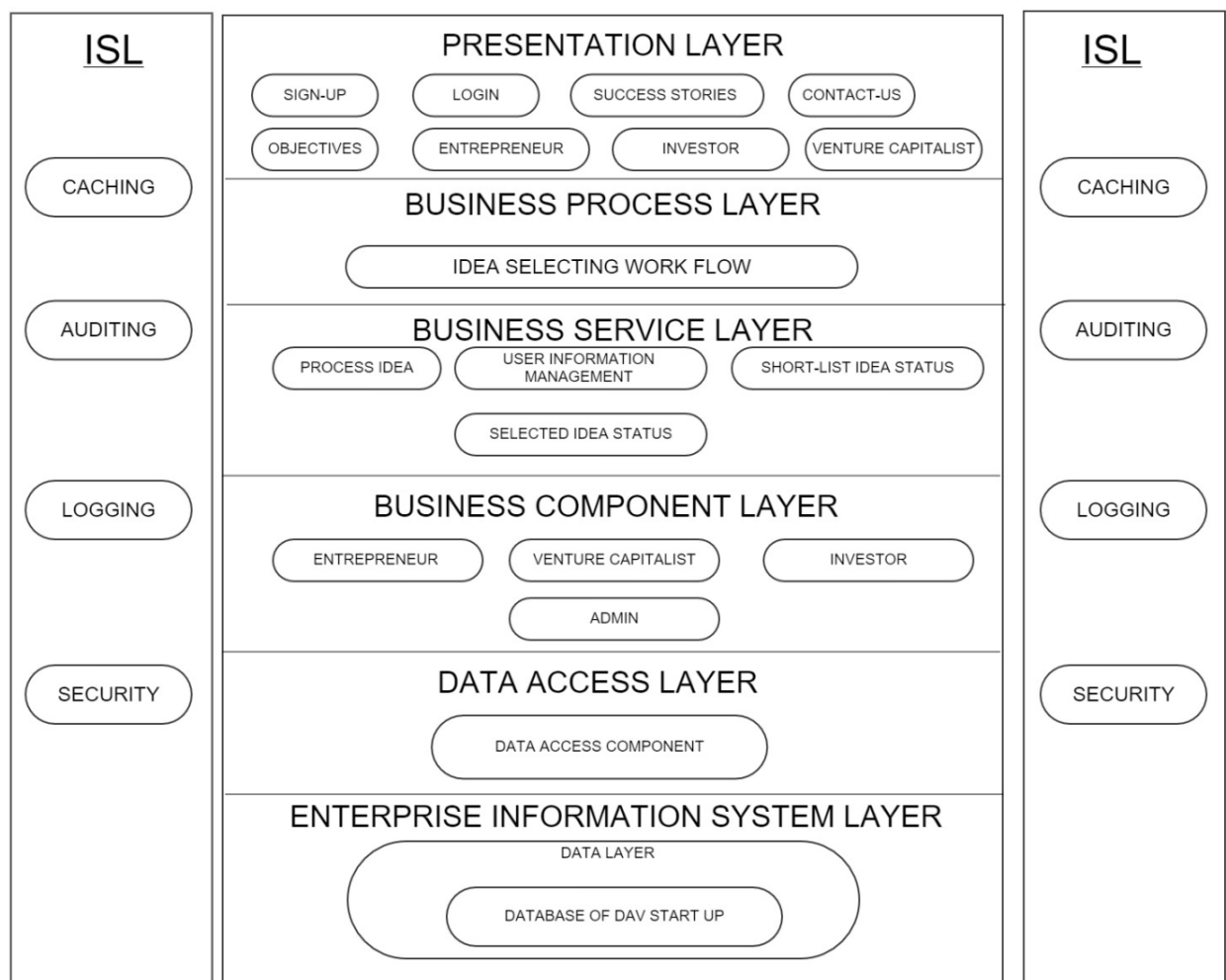
The scope of entrepreneurship development in country like India is tremendous so this is our contribution to the growth of the country by organising the Entrepreneurship Development starting from our own college DAVIET.

### 1.3 Overview of Document

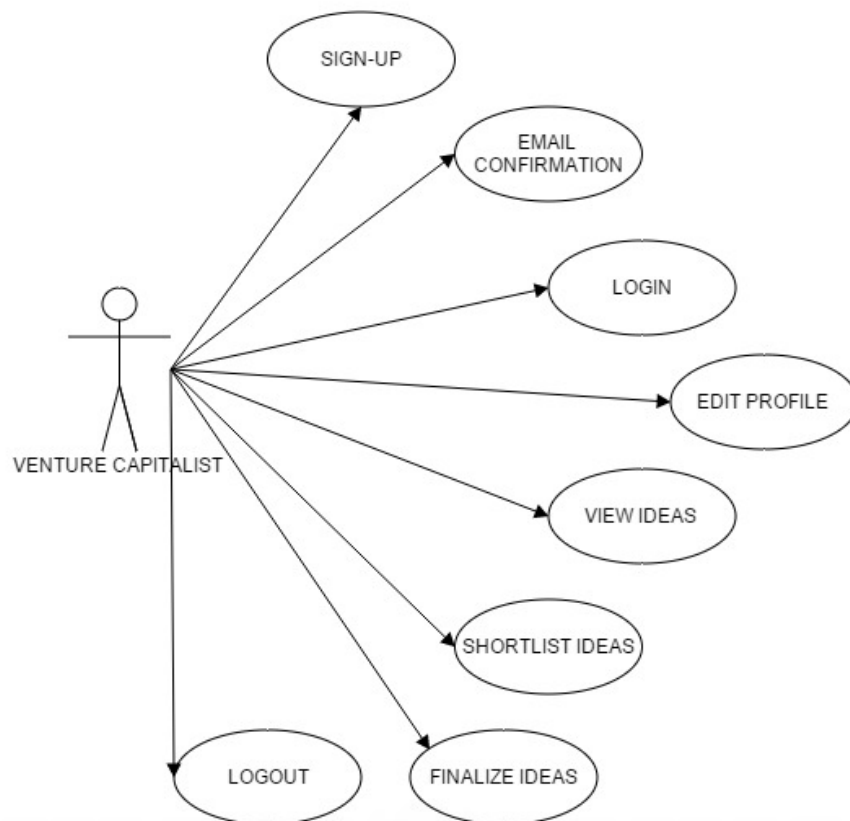
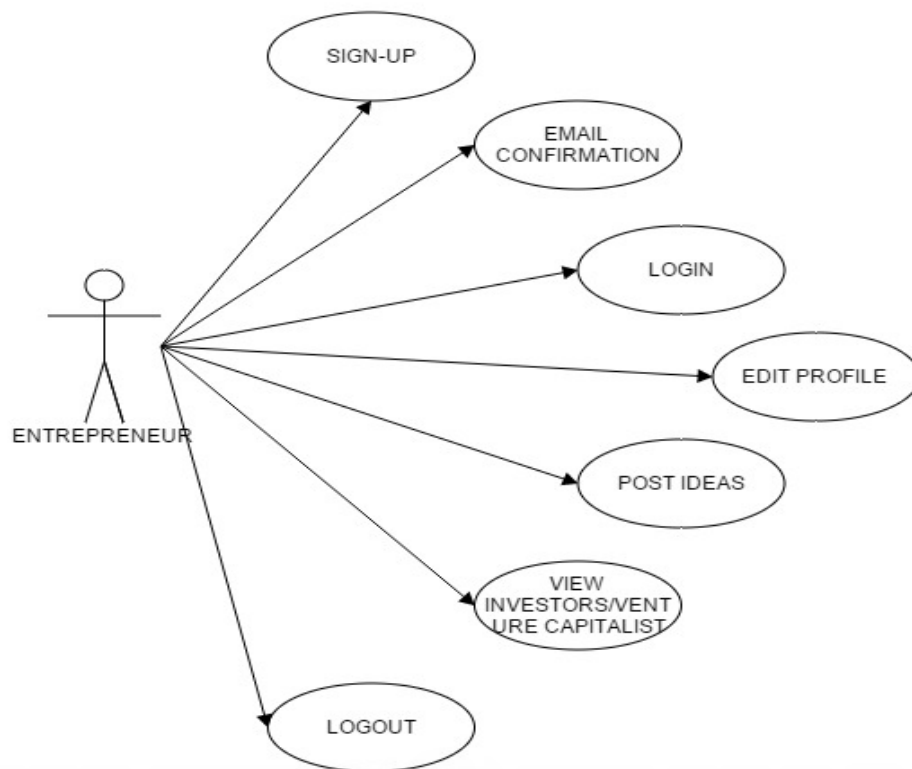
The remainder of the document contains an overall description of the module designs as well as the detailed designs for the main functionality of the module.

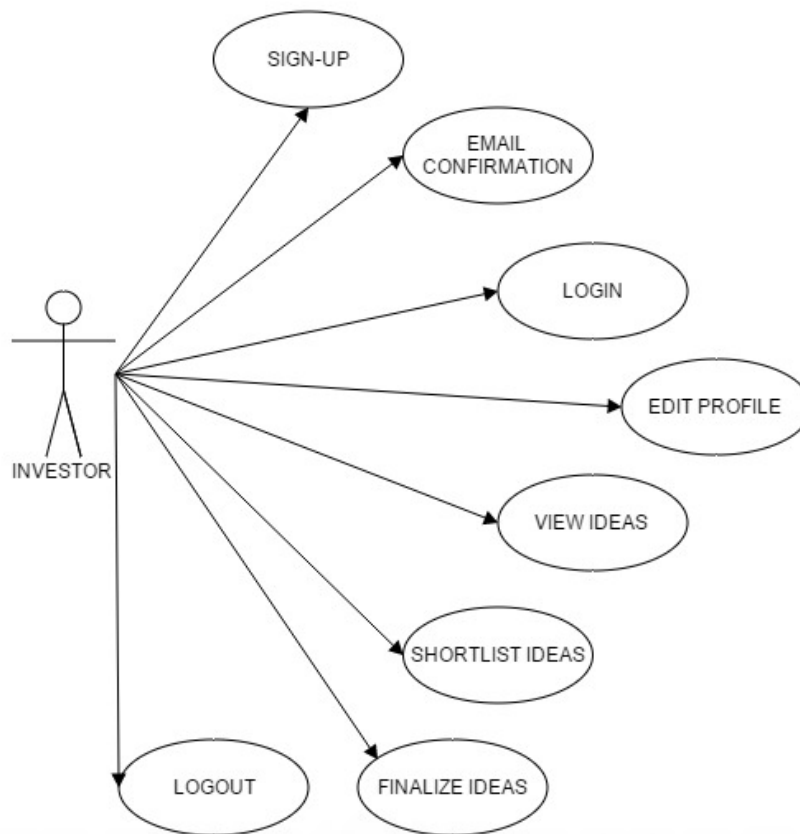
## 2. SYSTEM ARCHITECTURE DESCRIPTION

### 2.1 Architectural Description



## Use Case Diagram:





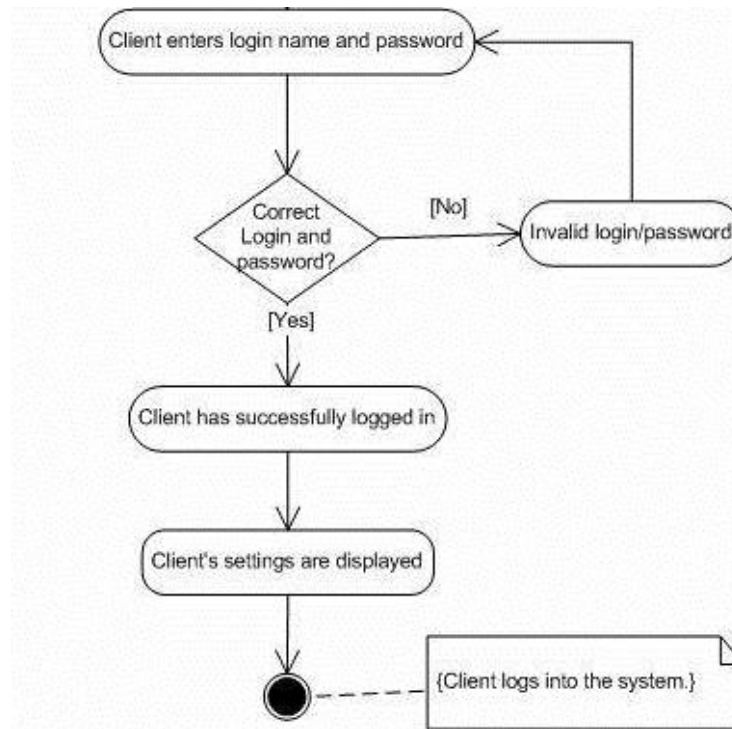
### 2.3 Component Decomposition Description

The system is composed of 3 modules:

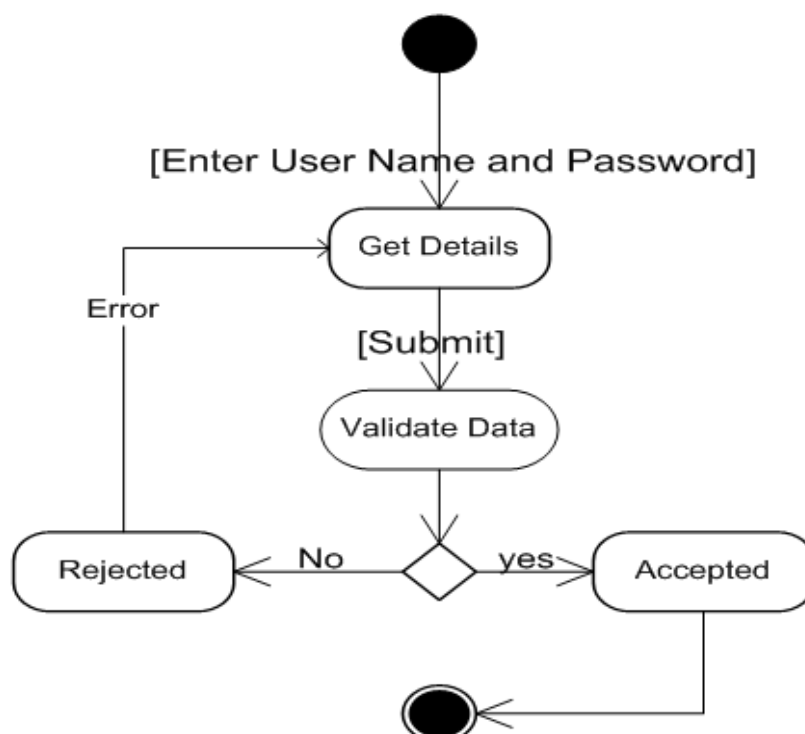
- **Admin:** Admin can perform the following functions:
  - Add, update and delete user's information.
  - Maintain Database.
  - Provide confidentiality & Secure connection .
- **User:** User can perform following functions.
  - Add, update and delete their own profile.
  - Add, update and delete their own ideas.
  - View list of Investor and Venture Capitalist.
  - Investor/Venture Capitalist can view and shortlist ideas.

## ACTIVITY DIAGRAM

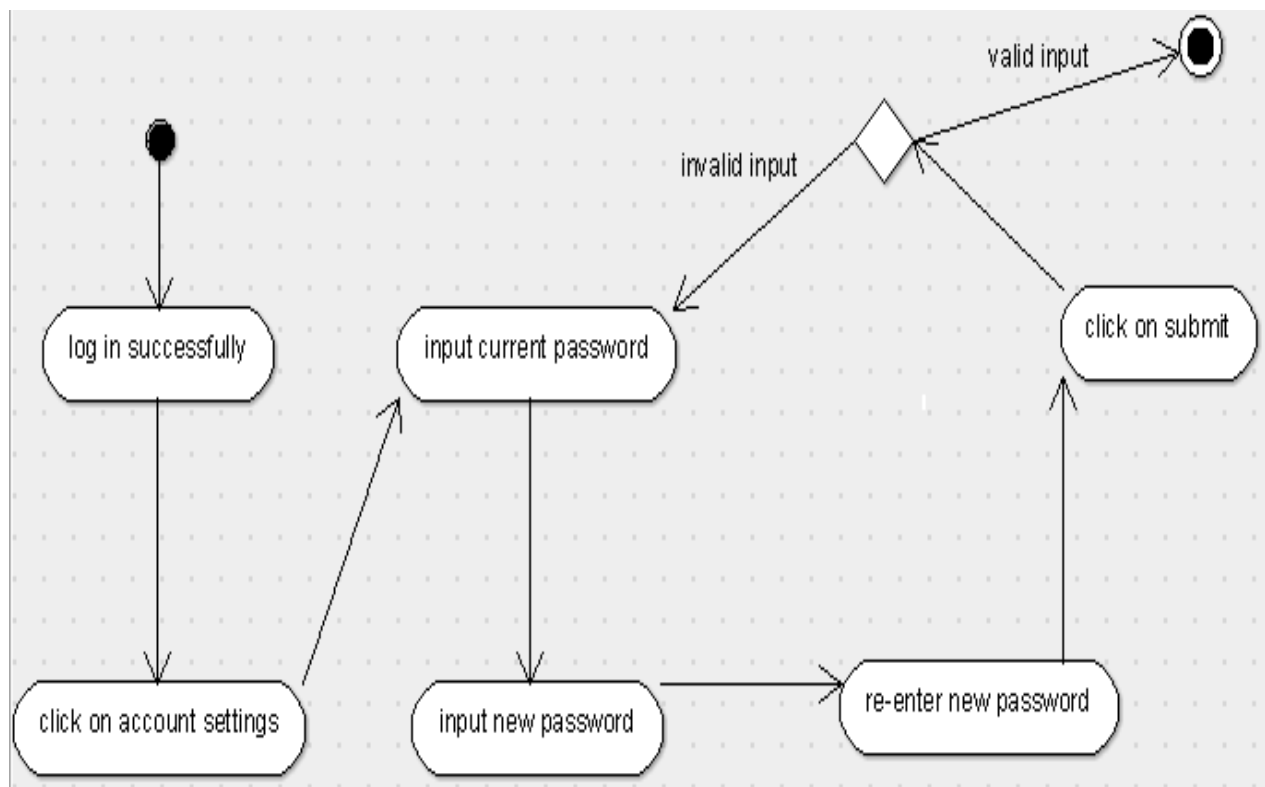
### Login Activity Diagram:



### Registration:



## **Change Password:**



## **3. Data Design**

### **3.1 Database Description**

**RDBMS**( relational database management system) is a database management system (DBMS) that is based on the relational model. RDBMS is used to manage Relational database. Relational database is a collection of organized set of tables from which data can be accessed easily. Relational Database is most commonly used database. It consists of number of tables and each table has its own primary key.

### **RECORD**

A single entry in a table is called a Record or Row. A Record in a table represents set of related data.

### **FIELD**

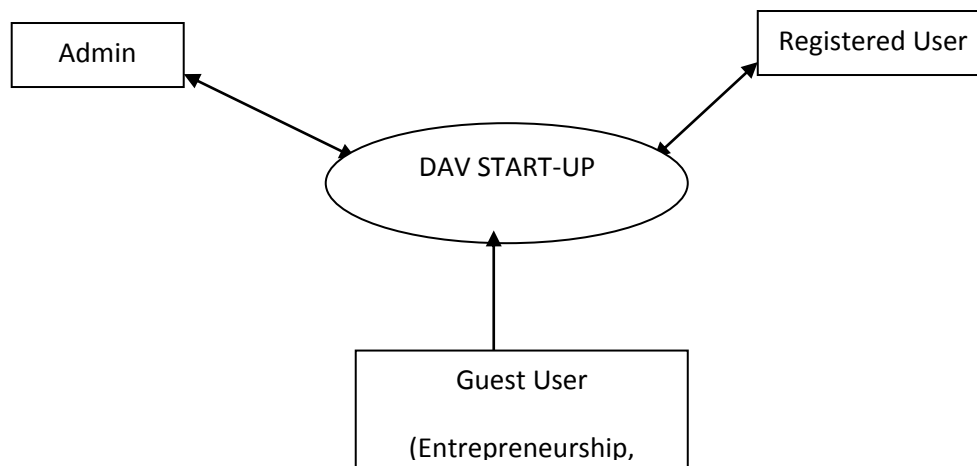
A table consists of several records(row), each record can be broken into several smaller entities known as Fields.

### **COLUMN**

In Relational table, a column is a set of value of a particular type. The term Attribute is also used to represent a column.

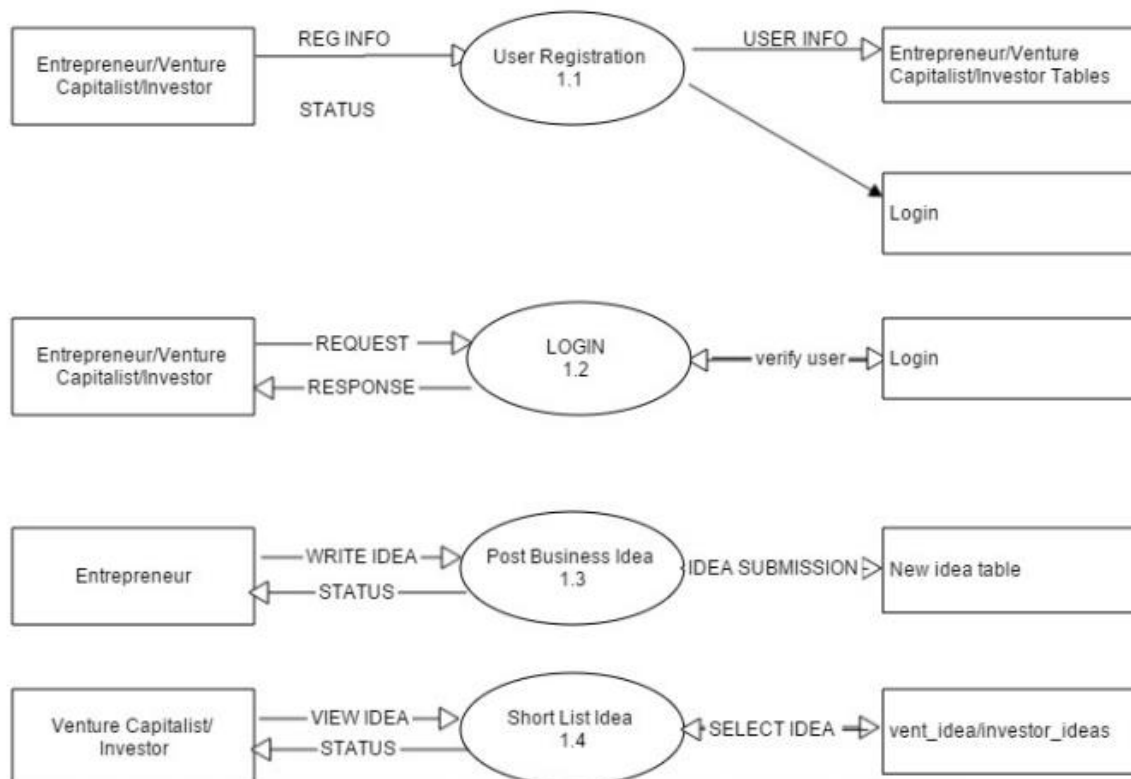
## DFD's of DAV START UP

### Context level

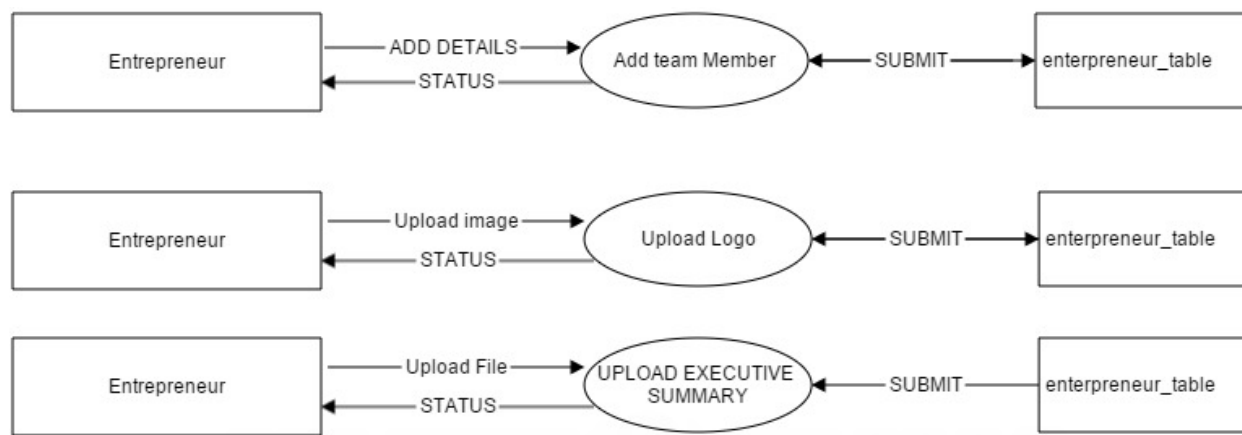


**Fig : 2.4.1 (Context level)**

### Level-1 DFD







## Global Data Structures

A **data structure** is a particular way of organizing data in a computer so that it can be used efficiently. Data structures can implement one or more particular abstract data types(ADT), which are the means of specifying the contract of operations and their complexity. Different kinds of data structures are suited to different kinds of applications, and some are highly specialized to specific tasks. For example, databases use B-tree indexes for small percentages of data retrieval and compilers and databases use dynamic hash tables as look-up tables.

**Stack**- Stack is an abstract data type with a bounded (predefined) capacity. It is a simple data structure that allows adding and removing elements in a particular order. Every time an element is added, it goes on the top of the stack, the only element that can be removed is the element that was at the top of the stack, just like a pile of objects.

## TABLE

In Relational database, a table is a collection of data elements organised in terms of rows and columns. A table is also considered as convenient representation of relations. But a table can have duplicate tuples while a true relation cannot have duplicate tuples. Table is the most simplest form of data storage.

## Database Tables of DAV Startup

### Contact Us

```
SELECT * FROM `contact_us`
```

Number of rows: 25

Sort by key: None

+ Options ▼

|                          |  |  |  | id | name  | email           | message   | create_time         |
|--------------------------|--|--|--|----|-------|-----------------|-----------|---------------------|
| <input type="checkbox"/> |  |  |  | 1  | Ankur | ankur@gmail.com | yeahh     | 2015-10-12 03:12:07 |
| <input type="checkbox"/> |  |  |  | 2  | ankur | ankur@gmail.com | hahahahaa | 2015-10-12 10:56:15 |

### Entrepreneur detail structure:

|                          |    |                        |               |                   |
|--------------------------|----|------------------------|---------------|-------------------|
| <input type="checkbox"/> | 1  | <b>id</b>              | int(11)       |                   |
| <input type="checkbox"/> | 2  | <b>username</b>        | tinytext      | latin1_swedish_ci |
| <input type="checkbox"/> | 3  | <b>email</b>           | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 4  | <b>pass</b>            | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 5  | <b>phone</b>           | int(50)       |                   |
| <input type="checkbox"/> | 6  | <b>dob</b>             | int(30)       |                   |
| <input type="checkbox"/> | 7  | <b>address</b>         | varchar(300)  | latin1_swedish_ci |
| <input type="checkbox"/> | 8  | <b>insti_name</b>      | varchar(150)  | latin1_swedish_ci |
| <input type="checkbox"/> | 9  | <b>insti_add</b>       | varchar(300)  | latin1_swedish_ci |
| <input type="checkbox"/> | 10 | <b>insti_no</b>        | int(50)       |                   |
| <input type="checkbox"/> | 11 | <b>website</b>         | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 12 | <b>univ</b>            | varchar(200)  | latin1_swedish_ci |
| <input type="checkbox"/> | 13 | <b>current_profile</b> | varchar(150)  | latin1_swedish_ci |
| <input type="checkbox"/> | 14 | <b>count_team</b>      | int(10)       |                   |
| <input type="checkbox"/> | 15 | <b>team_members</b>    | varchar(300)  | latin1_swedish_ci |
| <input type="checkbox"/> | 16 | <b>create_time</b>     | datetime      |                   |
| <input type="checkbox"/> | 17 | <b>modified_time</b>   | timestamp     | on u              |
| <input type="checkbox"/> | 18 | <b>isStu</b>           | bit(1)        |                   |
| <input type="checkbox"/> | 19 | <b>is_active</b>       | bit(1)        |                   |
| <input type="checkbox"/> | 20 | <b>token</b>           | varchar(1000) | latin1_swedish_ci |

### Venture Capitalist detail structure:

|                          | #  | Name                 | Type          | Collation         |
|--------------------------|----|----------------------|---------------|-------------------|
| <input type="checkbox"/> | 1  | <b>id</b>            | int(11)       |                   |
| <input type="checkbox"/> | 2  | <b>username</b>      | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 3  | <b>email</b>         | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 4  | <b>pass</b>          | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 5  | <b>phone</b>         | int(10)       |                   |
| <input type="checkbox"/> | 6  | <b>firm</b>          | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 7  | <b>linkedin</b>      | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 8  | <b>website</b>       | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 9  | <b>create_time</b>   | timestamp     |                   |
| <input type="checkbox"/> | 10 | <b>modified_time</b> | timestamp     |                   |
| <input type="checkbox"/> | 11 | <b>isVent</b>        | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> | 12 | <b>is_active</b>     | bit(1)        |                   |
| <input type="checkbox"/> | 13 | <b>token</b>         | varchar(1000) | latin1_swedish_ci |






















## Venture idea selection/ shortlisting:

```
SELECT * FROM `vent_ideas`
```

Number of rows: 25 ▼

Sort by key: None ▼

+ Options

|                          |  |  |  | id | u_id | idea_id | shortlisted | selected | create_time         |
|--------------------------|--|--|--|----|------|---------|-------------|----------|---------------------|
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 1  | 1    | 1       | 0           | 0        | 2015-10-18 23:43:17 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 2  | 1    | 2       | 0           | 0        | 2015-10-18 23:43:12 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 3  | 13   | 1       | 0           | 1        | 2015-10-19 00:29:18 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 4  | 13   | 2       | 1           | 0        | 2015-10-19 00:29:22 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 5  | 2    | 1       | 1           | 0        | 2015-10-19 02:27:28 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 6  | 3    | 1       | 0           | 0        | 2015-10-25 15:26:55 |
| <input type="checkbox"/> |  Edit |  Copy |  Delete | 7  | 3    | 2       | 0           | 0        | 2015-10-23 13:04:48 |

## Investor detail structure:

| #                           | Name                | Type          | Collation         |
|-----------------------------|---------------------|---------------|-------------------|
| <input type="checkbox"/> 1  | <u>id</u>           | int(11)       |                   |
| <input type="checkbox"/> 2  | username            | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> 3  | email               | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> 4  | pass                | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> 5  | phone               | text          | latin1_swedish_ci |
| <input type="checkbox"/> 6  | linkedin_profile    | varchar(200)  | latin1_swedish_ci |
| <input type="checkbox"/> 7  | company_name        | varchar(300)  | latin1_swedish_ci |
| <input type="checkbox"/> 8  | current_profile     | varchar(200)  | latin1_swedish_ci |
| <input type="checkbox"/> 9  | years_of_experience | varchar(100)  | latin1_swedish_ci |
| <input type="checkbox"/> 10 | about_company       | varchar(300)  | latin1_swedish_ci |
| <input type="checkbox"/> 11 | website             | varchar(150)  | latin1_swedish_ci |
| <input type="checkbox"/> 12 | revenue             | varchar(150)  | latin1_swedish_ci |
| <input type="checkbox"/> 13 | create_time         | timestamp     |                   |
| <input type="checkbox"/> 14 | modified_time       | timestamp     |                   |
| <input type="checkbox"/> 15 | isInvestor          | bit(1)        |                   |
| <input type="checkbox"/> 16 | is_active           | bit(1)        |                   |
| <input type="checkbox"/> 17 | token               | varchar(1000) | latin1_swedish_ci |

## Investor idea selection/ shortlisting:

```
SELECT * FROM `investor_ideas`
```

Number of rows: 25

Sort by key: None

+ Options

|                          |                    | id | u_id | idea_id | shortlisted | selected | create_time         |
|--------------------------|--------------------|----|------|---------|-------------|----------|---------------------|
| <input type="checkbox"/> | Edit  Copy  Delete | 1  | 1    | 1       | 1           | 0        | 2015-10-19 02:24:45 |
| <input type="checkbox"/> | Edit  Copy  Delete | 2  | 1    | 2       | 0           | 1        | 2015-10-19 02:24:54 |
| <input type="checkbox"/> | Edit  Copy  Delete | 3  | 2    | 1       | 0           | 1        | 2015-10-26 10:49:15 |
| <input type="checkbox"/> | Edit  Copy  Delete | 4  | 2    | 2       | 0           | 0        | 2015-10-23 17:04:11 |
| <input type="checkbox"/> | Edit  Copy  Delete | 5  | 2    | 3       | 0           | 0        | 2015-10-19 12:08:32 |
| <input type="checkbox"/> | Edit  Copy  Delete | 6  | 3    | 1       | 1           | 0        | 2015-10-25 13:13:28 |

## Entrepreneur details:

```
SELECT * FROM `student_user`
```

Number of rows: 25

+ Options

|                          |                    | id | username     | email       | pass  | phone      | dob | address      | insti_name | insti_add   | insti_no   | website        | univ | curr |
|--------------------------|--------------------|----|--------------|-------------|-------|------------|-----|--------------|------------|-------------|------------|----------------|------|------|
| <input type="checkbox"/> | Edit  Copy  Delete | 11 | Aarti Gandhi | a@gmail.com | yeahh | 2147483647 | 2   | 559 JP Nagar | DAVIET     | Kabir Nagar | 1812259851 | www.davjal.org | PTU  | Stu  |

## Venture Capitalist details:

```
SELECT * FROM `vent_user`
```

Number of rows: 25

Sort by key: None

+ Options

|                          |                    | id | username     | email            | pass   | phone      | firm        | linkedin      | website             | create_time         |
|--------------------------|--------------------|----|--------------|------------------|--------|------------|-------------|---------------|---------------------|---------------------|
| <input type="checkbox"/> | Edit  Copy  Delete | 3  | Aarti Gandhi | ga@gmail.com     | yeahh  | 2147483647 | Internshala | http://abodef | www.internshala.com | 2015-10-18 23:48:32 |
| <input type="checkbox"/> | Edit  Copy  Delete | 6  | Ankur Kaul   | ankur5@gmail.com | hgijhj | 2147483647 | Practo      | http://abodef | www.practo.com      | 2015-10-18 23:53:58 |
| <input type="checkbox"/> | Edit  Copy  Delete | 7  | Daman Luthra | daman5@gmail.com | hgijhj | 2147483647 | Hena        | http://abodef | www.hena.com        | 2015-10-18 23:54:00 |

### **3.3 Data dictionary**

A data dictionary is a collection of descriptions of the data objects or items in a data model for the benefit of programmers and others who need to refer to them. A first step in analyzing a system of objects with which users interact is to identify each object and its relationship to other objects. This process is called data modelling and results in a picture of object relationships. After each data object or item is given a descriptive name, its relationship is described (or it becomes part of some structure that implicitly describes relationship), the type of data (such as text or image or binary value) is described, possible predefined values are listed, and a brief textual description is provided.

| <b>Number</b> | <b>Entity Type<br/><br/>(Class Name)</b> | <b>Service<br/><br/>(Public method<br/>only)</b> | <b>Attributes<br/><br/>(parameters)</b> | <b>Description<br/><br/>(method<br/>documentation)</b>                      |
|---------------|--|--|---|---|
| 1.            | Admin                                    | Admin login                                      | Username<br><br>Password                | It stores the email of<br>admin.<br><br>It stores the password<br>of admin. |

|    |      |               |   |   |
|----|------|---------------|---|---|
| 2. | User | ManageProfile | Name<br>Password<br>Age<br>Gender<br>Country<br>State<br>City<br>Contact no.<br>Email<br>Team | It stores name of user.<br>It stores password of user.<br>It stores age of user.<br>It stores Country of user.<br>It stores state of user.<br>It stores city of user.<br>It stores contact no. of user.<br>It stores email of user<br>It stores the details of all the team members.<br>. |
| 3. | User | Post Idea     | Title<br>Idea<br>Executive summary<br>Logo<br>Investor/Venture Capitalist                     | Title of the project<br>Details of idea<br>Doc file / pdf file contains all details of business idea<br>Logo of the company.<br>View & shortlist idea.  |

