



Computer Engineering Department

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UNIVERSITY OF MUMBAI

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Synopsis on

ALL IN-ONE MENTORING SYSTEM

Submitted in partial fulfillment of the degree of
Bachelor of Engineering(Sem-3)

in

Computer Engineering

By

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➤ ABSTRACT

- The rapid growth and evolution of technology has opened tremendous and remarkable opportunities in one's life but, getting the right advice provided with a proper structured guidance is substantial.
- Due to broadening of various new fields, its widespread in various aspects of life and a complex and entangled life schedule has enabled this guidance sector's importance.
- Basic Function of **ALL IN-ONE MENTORING** system is to provide an appropriate guidance path to the users for channelizing their potential in the right direction and giving solutions on the basis of self-recorded results and helping people in overcoming various barriers.

1. Project Conception and Initiation

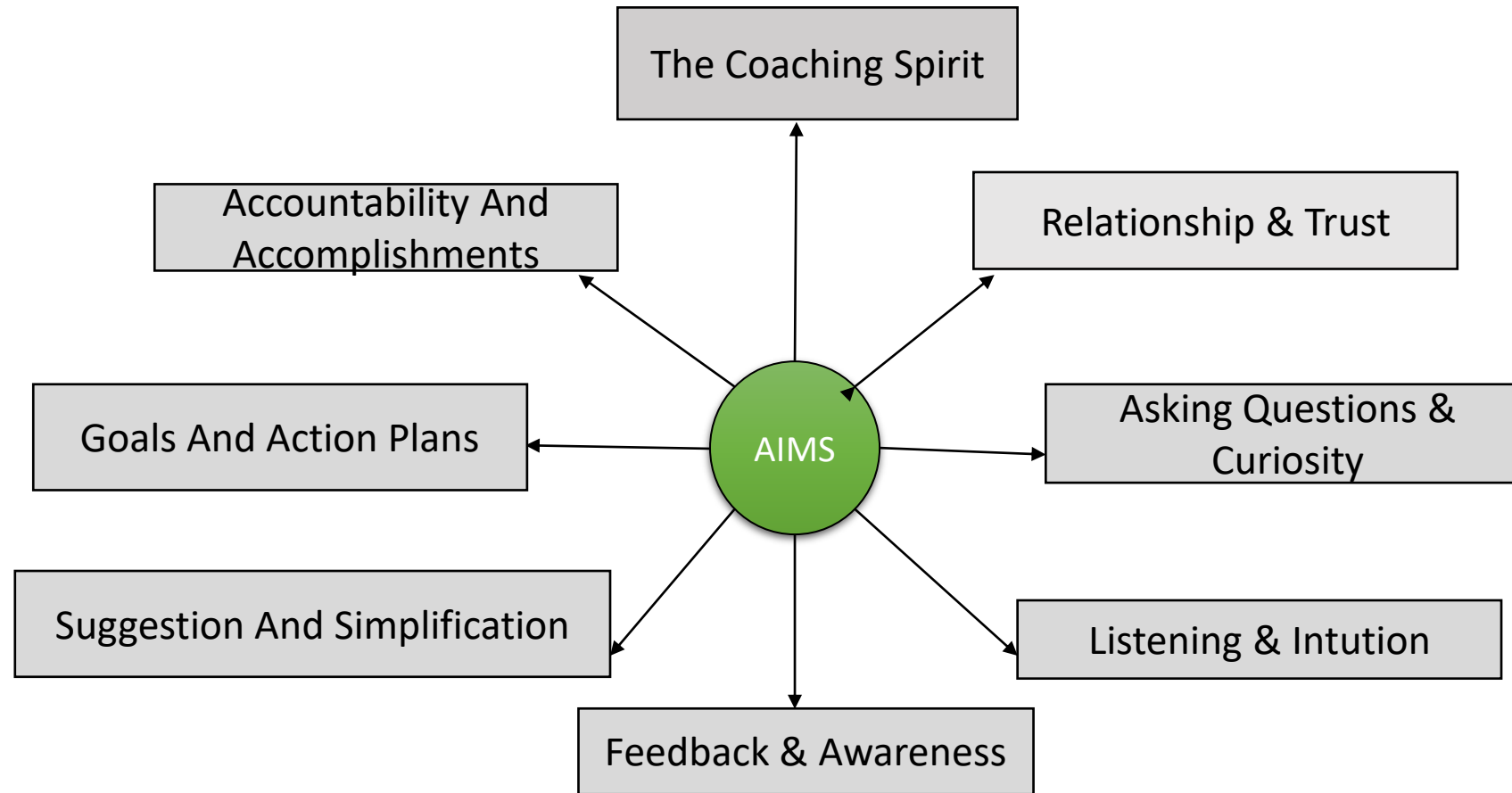
1.1 Problem Definition

- Human life is dynamic and world is also receiving changes in every stage. So more or less an individual faces certain problems of life and society and tries his best to adjust not for few days or few years rather for entire life span.
- As life is full of problems, anxieties and tensions from the point of solution of problems, selection of choices and taking suitable decisions .Indeed, guidance is not limited to particular period of human life but it is needed for all times to come which proves that guidance is a continuous process.
- This project aims to build a system with one-to-one interaction resulting in an appropriate solution & to have a clear vision for their goals.

1.2 Objectives

- To develop resourcefulness and self-direction.
- To help mentees to select appropriate courses in line with individual needs, interests, abilities and circumstances.
- To provide information on occupational opportunities and trends and suitable employment.
- Maintenance of the physical health relating physical exercises, food etc.
- Preparation for better job placements in the world of the works.

FLOW CHART :



“Mentoring is a process of dynamic interpersonal relationships designed to influence the attitudes & subsequent behaviour of a person”

1.3 Scope

Indeed the scope of guidance/mentoring is very vast and extending one as it has given much emphasis on various aspects of human life. With due importance it does not ignore any aspect of life. The need and importance is much more felt by every individual as the human life is getting more complex and the world undergoes through various changes day by day.

The mentoring system will help the clients/prospect to eradicate the confusions, help in overcoming the obstacles & setbacks and will illuminate the path of glory for them. Also the scope of guidance embodies certain tools and techniques to measure or evaluate the abilities, interests, aptitudes and attitudes of the individuals such as -

- 1) Observations*
- 2) Different appropriate tests*
- 3) Individual inventories*
- 4) Diagnostic records*
- 5) Case studies*
- 6) Cumulative record cards*

1.3 Benefits to society, environment & applications

- Efforts at development and channelization of individual potential with a view to meeting manpower and social requirements for national growth and betterment of society.
- E-mentoring has been found to be an efficient method to enforce distance training and various mental & physical guidance.
- It helps to create interaction and connection in an increasingly (connected) disconnected world. It would be nice to see people creating real connections and relationships, with people outside of their 'normal' circles.
- Mentoring is an established relationship for the purpose of learning and personal or career development. Formalised mentoring takes place in many organisations such as businesses, school and universities, to support and facilitate the growth of individuals.

1.4 Existing System

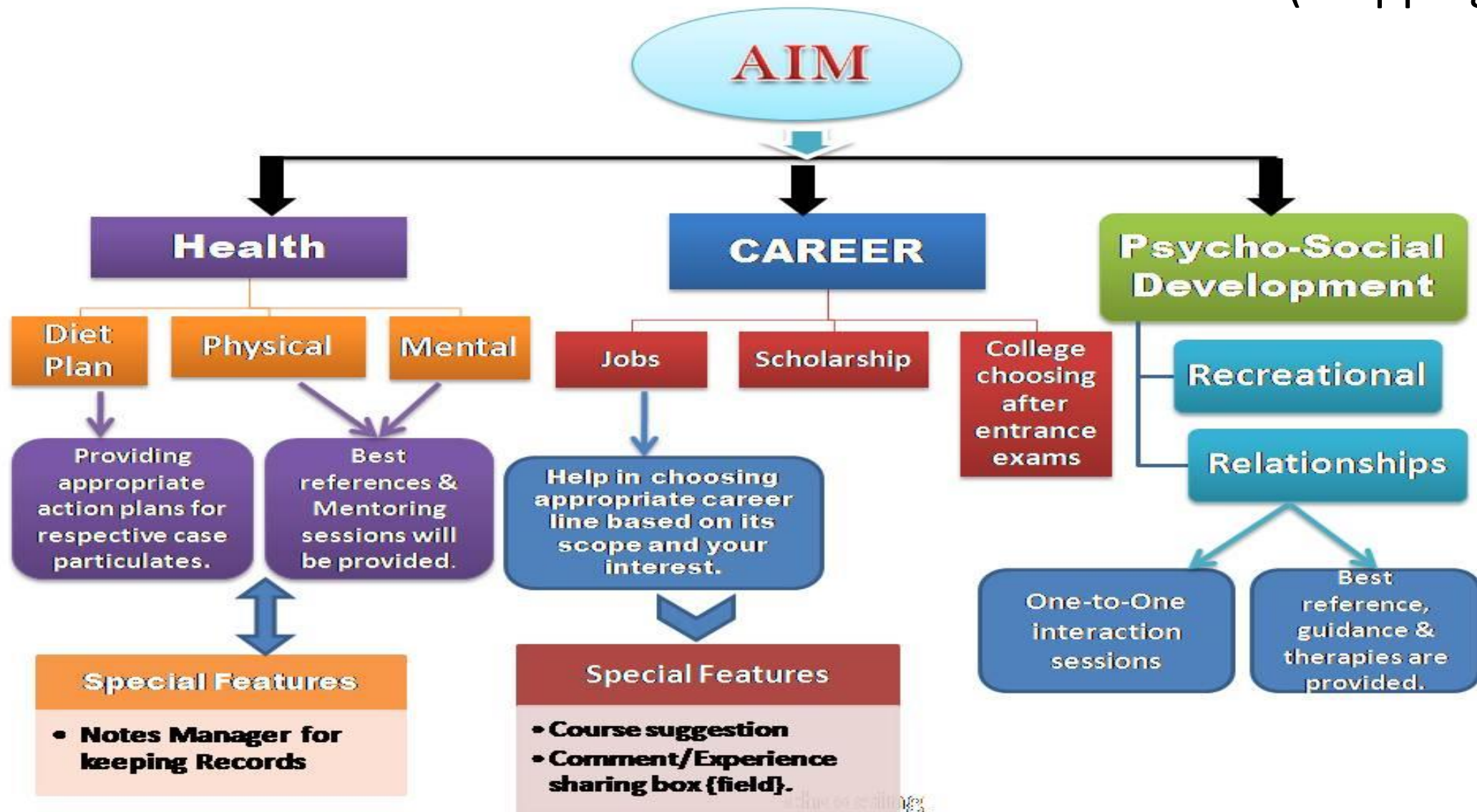
In the present mentoring system categories are not interlinked i.e. how excess pressure on career affects health and relationships and all may affect your career. So in our proposed mentoring system we are bringing various majors & concerns under one roof so that all the issues in one's life get resolved and they achieve their aims & goals.

1.5 Technology stack

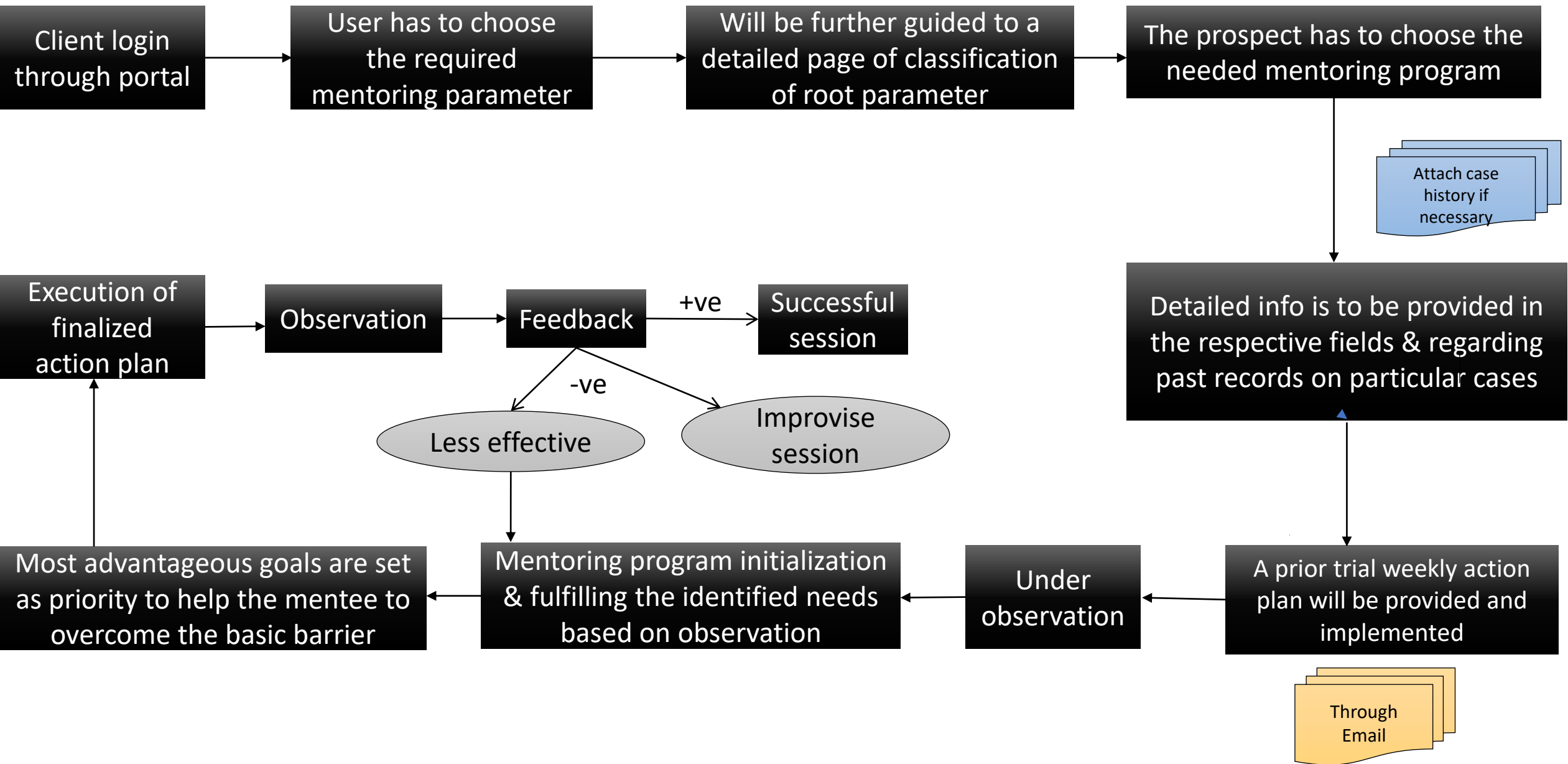
- **JAVA** :- Java is a class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible. It is a general-purpose programming language intended to let application developers write once, run anywhere meaning that compiled Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to byte code that can run on any Java virtual machine regardless of the underlying computer architecture. The Javaruntime provides dynamic capabilities that are typically not available in traditional compiled languages.
- **HTML** :- HTML is responsible for the structuring and placement of the content. It covers the way content is organized and where it is positioned on the page in whatever case. It is the backbone.
- **MYSQL** :- MySQL is the world's second most widely used open-source relational database management system .It is named after co-founder Michael Widenius daughter, My.The SQL phrase stands for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. MySQL is a popular choice of database for use in web applications.
- **JSP** :- Java Server Pages technology is an extension of the Java Servlet Technology. This is the software that enables a web server to handle dynamic Java-based web content using HTTP protocol.JSP is the similar technology that helps developers to create dynamic content using HTML and XML. Servlets are platform-independent ,server-side modules and separate logic from display. It separates user interface from content generation, enabling designers to change overall layout without changing the main content.

1.6 Project Design

(Mapping)

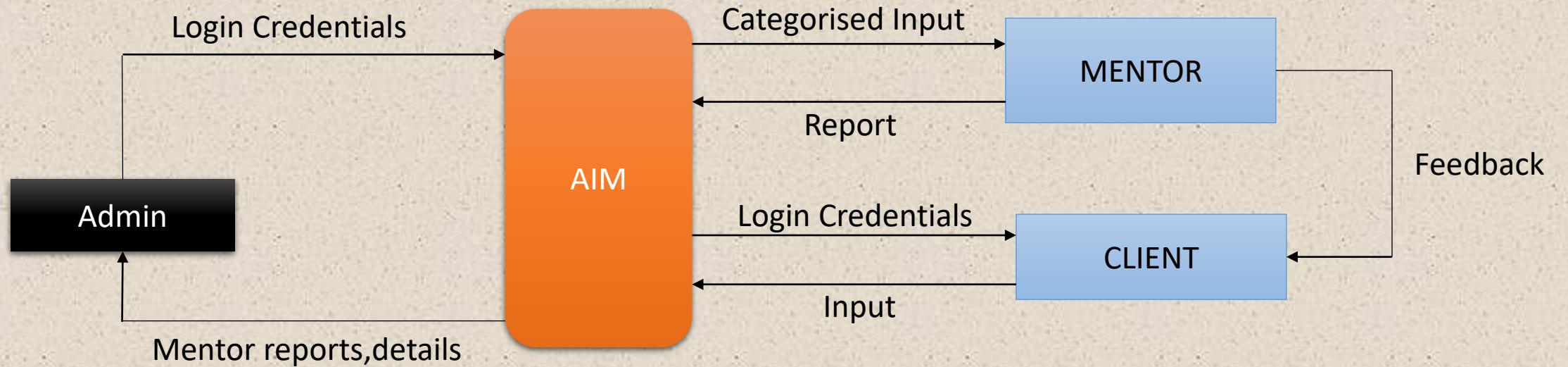


PROPOSED SYSTEM -

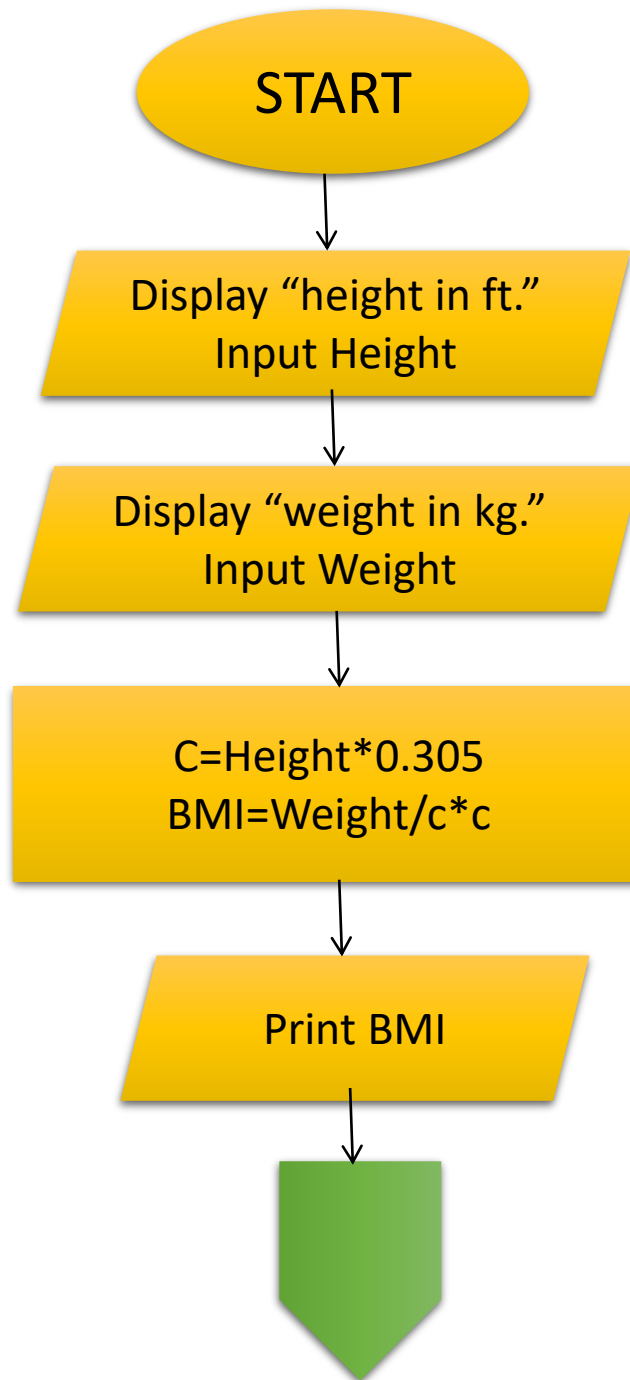


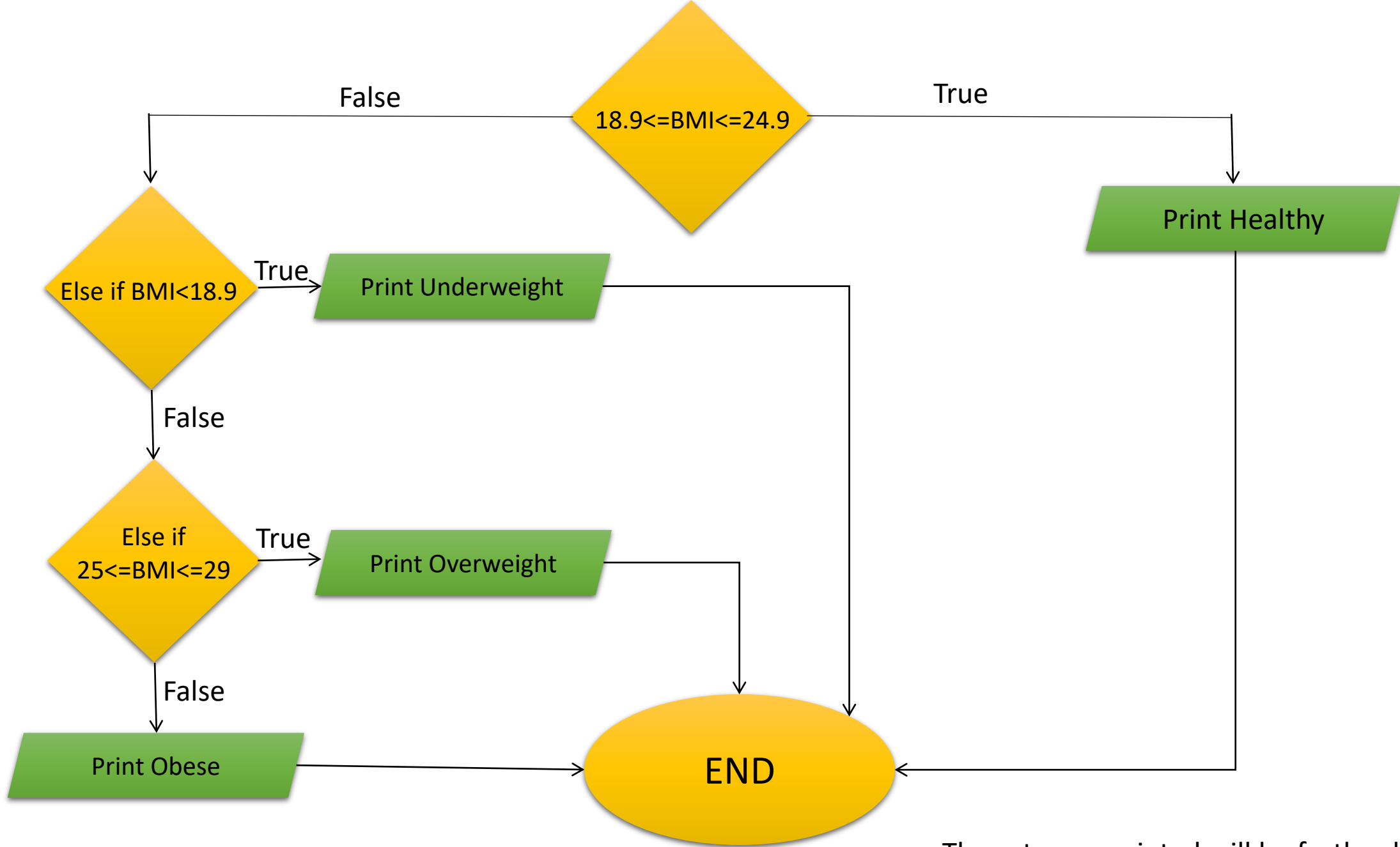
FLOW OF DATA

Level 0 : DFD



Algorithm for
preparing
diet plans based on
BMI





•The category printed will be further linked to the input your details field.

Data entries(through JAVA)

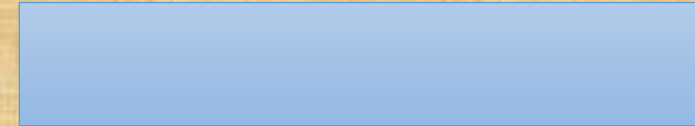
- 1) Enter your name:
- 2) Enter your age:
- 3) Enter your email id.:
- 4) Any health issues Y/N:

If yes, check the box if you have any of the disease

- ☐ Heart disease
- ☐ Diabetes
- ☐ High blood pressure
- ☐ Body pain & difficulty with physical functioning
- ☐ Mental illness such as clinical depression, anxiety & other mental disorders
- ☐ Sleep apnea & breathing problems
- ☐ Other

- 5) Previously examined Y/N
If yes → Attach details

- 6) Any on going diet plans? Y/N
If yes → Attach details
- 7) Any other details you want to share



- DISPLAY the list
- End

A comment box type field where the input given by user will be stored in the memory i.e. in the database & files too can be attached



Module 1. Front/Static Page

- The front end is made using HTML & CSS.
- It contains a short overview on what we are going to provide.
- This page also contains various buttons which have various actions. For example, when clicked on register button, a registration form pops up.
- We also have provided a bit information about what is mentoring & how are the session held for those who are unaware about mentoring.

Module 2. Registration page

- Admin, mentors & the users will have to sign in according to their roles through the respectively provided hubs.
- It consists of fields like first name, last name ,username, email ,password and confirm password .
- On creating an account the user(mentee) will be directed to the login page.

Module 3. Login Page

- User logs in with their credentials after user registers.
- Shows error message:
 - 1) If username is not found in the database.
 - 2) Entered password is incorrect.
- Reset password option is provided in case user forgets their password.

Module 4. Password Reset

- On clicking reset password, users need to enter their registered Email ID and submit.
- After the user clicks on submit button, the user will receive a password reset link on their registered Email ID.
- Once the user clicks on the link received in email, the user need to enter a new password according to the conditions mentioned.
- After the password is reset successfully, the user can login with their new password.

Module 5. Dashboard

- A mentee has to select the root parameter on which he/she wants guidance.
- There are three main parameters :-
 1. Career
 2. Health
 3. Psycho-social Development
- Your selected parameter and profile will be displayed here.
- All the updates will be seen on the dashboard

Module 6. Guidance/Counselling

- A mentee will be guided about his daily routine, diet plans, exercises etc.
- If any queries, he can contact the mentor personally for guidance .
- The prospect will be provided with an appropriate solution to their problems.
- The person's case history will be stored in the database in order to keep a record for future purpose if needed.(The person's case history will be kept private & only admin will have the access to these files or reports)

Module 7. E-mailing System

- The reports or plans prepared by the mentor will be provided through e-mails to the users.
- The mentee will be able to contact the mentor through e-mails & if required in-person interactive sessions will be also held.
- While responding to e-mails, the necessary documents related to your case should be attached if asked.
- For physical oriented guidance, you will be updated weekly through e-mails & you should provide us with the updates which will be taken in consideration & changes will be implemented if required.
- NOTE- Career & psycho-social development mentoring or advices are not provided through e-mails but through different means.

Module 8. Observation Charts

- All the activities of a mentee will be observed and mentors will keep a track of it.
- Updates after tracking the observation chart will be shared to mentee.

Module 9. Feedback

- At last the mentee has to give feedback of mentor and the mentoring system as whether the session was effective & productive or not.
- Suggestions regarding making our mentoring program more effective will be taken into account & will be implemented if necessary.

THANK YOU