0.1 Product perspective

The product is supposed to be an open source, under the GNU general Public License. It is a web based system implementing client-server model. The Software Requirements Specification (SRS) For Inelegant psychological System provides simple mechanism for users to share and acquire knowledge.

This product have Database (DB) that store

0.1.1 Database System:

- **Session details:**
  Will record the information of any session like duration of the session , date , the client that take this session, the psychologist that supervise in this session , and report of this session.

- **Client description:**
  It includes client code, name address, email, phone number and birth-date and maybe other information, this information used for confirmed reservation of session and keeping the records of the client for any emergency or any other kind of information.

- **Psychologist description:**
  It includes specialist code, name, address, and email, phone number, Social Security Number (SSN) , his qualifications, and graduation year, this information to performance evaluation and develop him.

- **Reservation description:**
  It includes the day of reservation, date, time, client details, and specialist details, this information to save right of client and specialist in the center.

- **Pay description:**
  It includes pay code, receptionist name, date, time, and price of session, thin total.

- **Income description:**
  It includes the client details, specialist details, session details, number of hour, and notes, this information to compute the total income per day, then per month, then per year and output the report.

- **Outcome description:**
  It includes The specialist details, total number of sessions, date, day, and total Proportion of Specialist, and total number of hours, this information to compute the total exported at month, and year.

- **report description:**
  It includes the head title, body of report, and footer and signature

0.1.2 client side:

The system deviated two subsystems, the first subsystem is client side services, and the second server side services, we will introduce in this subsection the client side services.

We provide in the client side services the main services like the user will able to log-in into system and log-out from it, he can send request of reservation to specific appointment, and retrieve his schedule, he can access his report that specified to his case, the user can update his profile and change his information, the specialist can enter the available appointment that appropriate to him, and retrieve his schedule, upload case's reports, and can connect with his cases and receptionist or management.

The client side services provide to management some reports for calculations of the center, report for total hours of all specialists, and total work hours of center, report for Exports of the center like total salaries of all Employees in the center, Total cost of all maintenance of all things monthly or yearly, report to help decision makers for take the correct decision, report for all problems in the center, and provide for all managers to connect with Employees and clients of center, the client side provide to center mechanism to confirm automatically or manually reservations of the next day.

0.1.3 Server side:

We provide in the server side services the main services like Encrypt all data to provide security to system, controller functions that access and connect with Database Management System (DBMS) that is a collection of programs that enables users to create and maintain a database, and provide the functions that can access or send and receive the requests from client side services

0.2 PRODUCT FEATURES

The major features of Inelegant psychological database system as shown in below entity relationship model

0.3 User characteristics

0.3.1 Receptionist

Receptionist should be able to determining the specific appointment for the client, and update any appointment according to client, he should able to retrieve all information of any reservation appointment, retrieve any information of calculation system to specific client, and he retrieve all his conversations with the client in the system

0.3.2 Psychologist

Specialist should be able to enter his appointments of his sessions daily, or monthly, and he retrieve his schedule of day, he can update his appointments before passing 24 hours from setting it,should be able to retrieve all information of his cases and specific reports that it was written by him, and able to upload the report of specific case.

0.3.3 Client

Client should able to retrieve his schedule of his appointments, able to choose from available appointments that his specialist determined its, and able to retrieve all reports that specific his case and download this report, able to update his information and update the appointment before passing 24 hours from his choosing it, he can see the program that his specialist preparing it to him and Proposed Plans to solve issues of the case, he can connect with management of center.

0.3.4 Trainee

Trainee should able to choose from available courses and Enroll it, able to retrieve his schedule of appointments of all courses that he Enroll its and all information about its, able to access all materials that specified to the course and download its, able to retrieve specific report about Trainer, his Performance, his Tests, and results or points that take from Exercises

0.3.5 Lecturer

Trainer should be able to set all courses that will Lecture its, and determine the appropriate appointments for him, supervise trainee that enrolled to courses that will be specified, he can upload the materials of the course and retrieve all information that specific of the trainee in the course, and dropped out The rioters from the course, connect with trainees and receptionist

0.4 OPERATING ENVIRONMENT

Operating environment for Inelegant psychological System is as listed below.

- distributed database
- client/server system
- Operating system: Windows, windows phone, android, mac os, linux
- database: my sql database
- platform: Python/Java/Java Server Pages (JSP)

0.5 DESIGN AND IMPLEMENTATION CONSTRAINTS

A model is an abstraction of a system. A model is an abstraction of a system. A model is an abstraction of a system, Building Models to reduce complexity, test the system before building it, communicate with customer, and document and visualize our Ideas The Models divided to

- **Functional diagrams**
  Describe the functionality of the system from the user's point of view, describes the interactions between the user and the system, and includes use case diagrams.

- **Static diagrams**
  Describe the static structure of the system: Classes, Objects, attributes, associations.

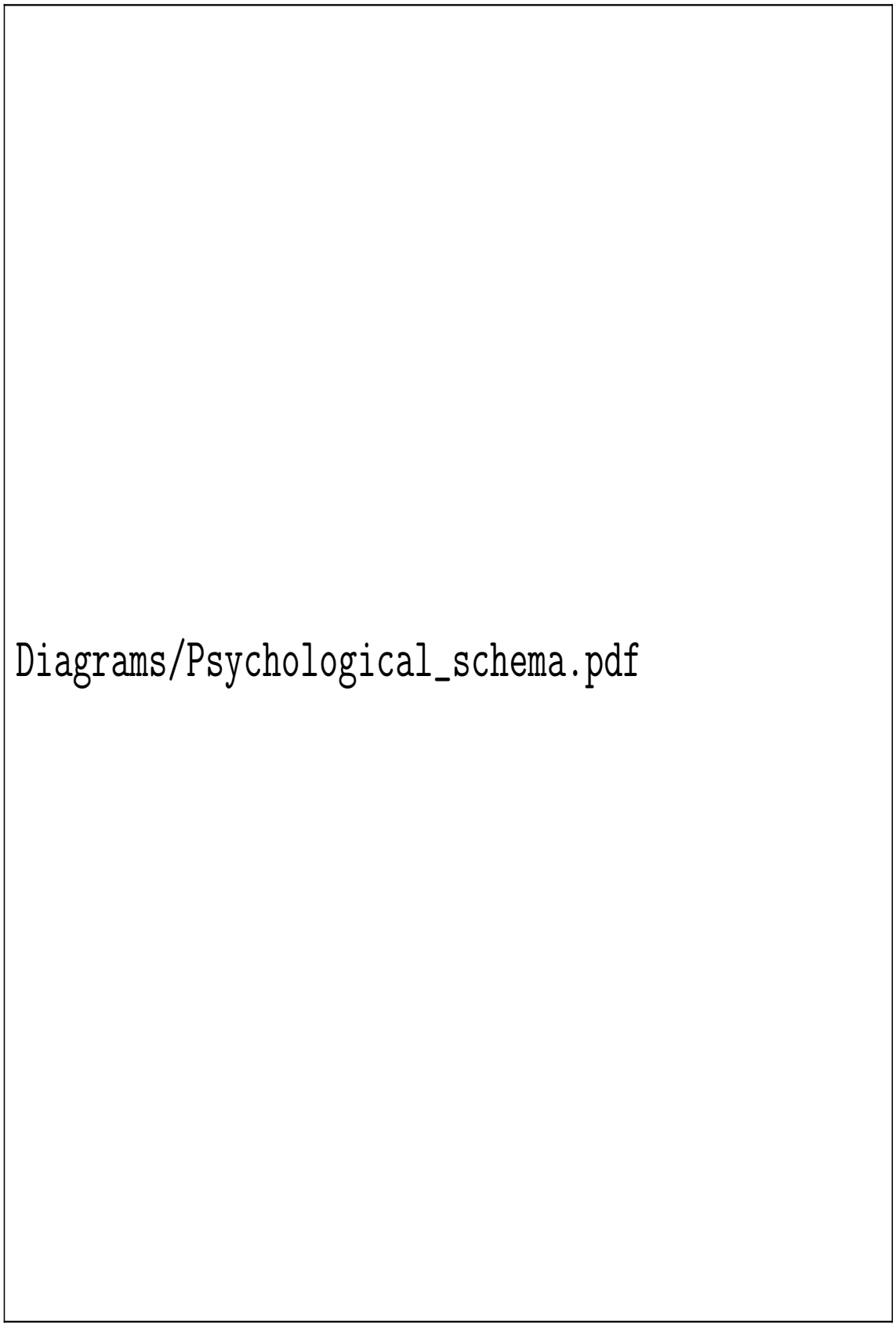
- **Dynamic diagrams**

  - **Activity diagrams**
    Describe the dynamic behavior of a system, in particular the work-flow.

  - **Interaction diagrams**
    Describe the interaction between objects of the system

We will introduce Some models that will understand from them the functional and methodology of the system, we will Design in the Functional diagram *Use case diagram* in ??, will design in the Static diagram *Class Diagram* in ??,then will design in the Dynamic diagram *Activity diagram* in ??, and *Interaction diagram* that will introduce Sequence Diagram in ??, ??, ??, ??, ??, ??, ??, ??, ??

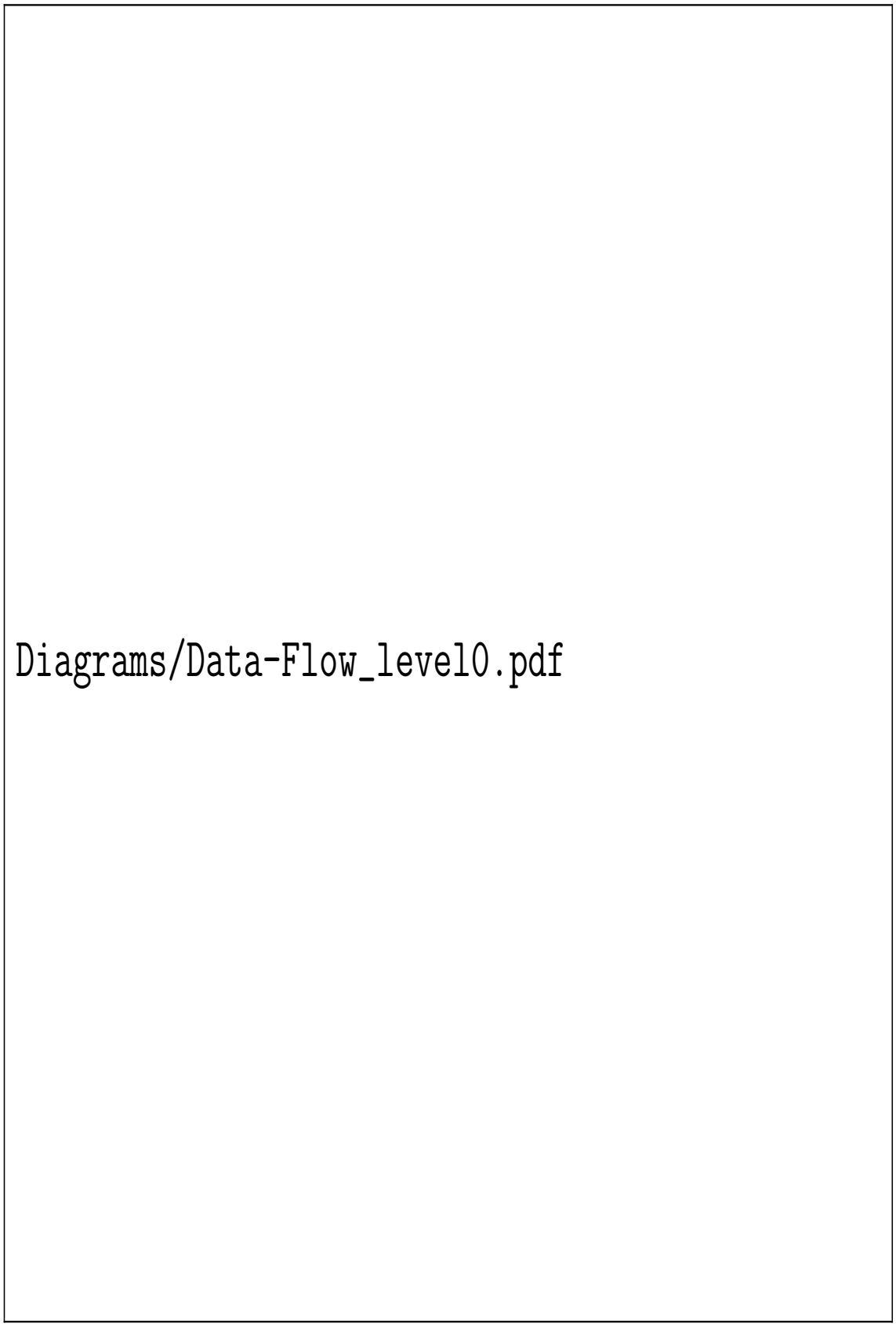
0.5.1 Schema



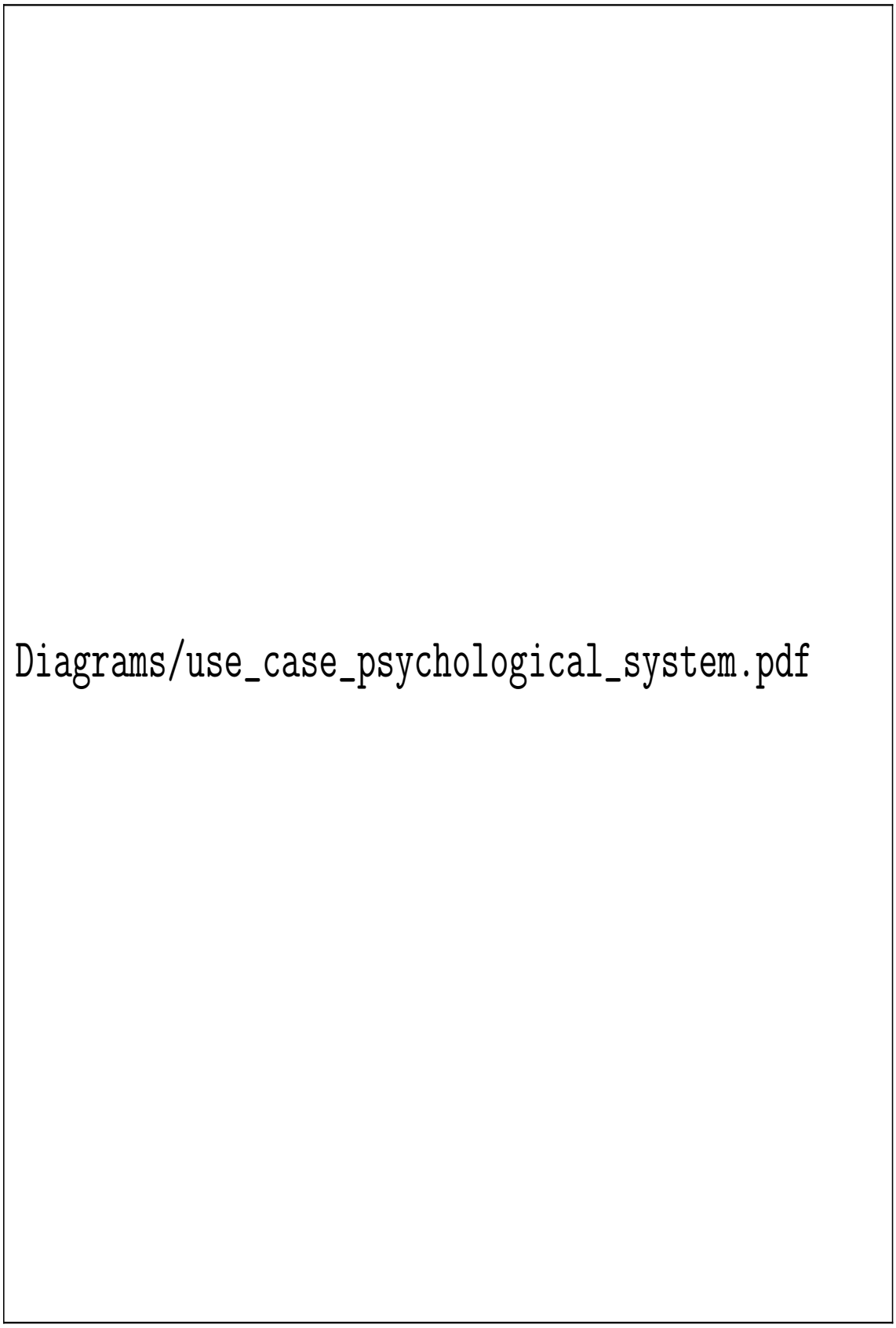
0.5.2 Data flow diagram

Context diagram

level one

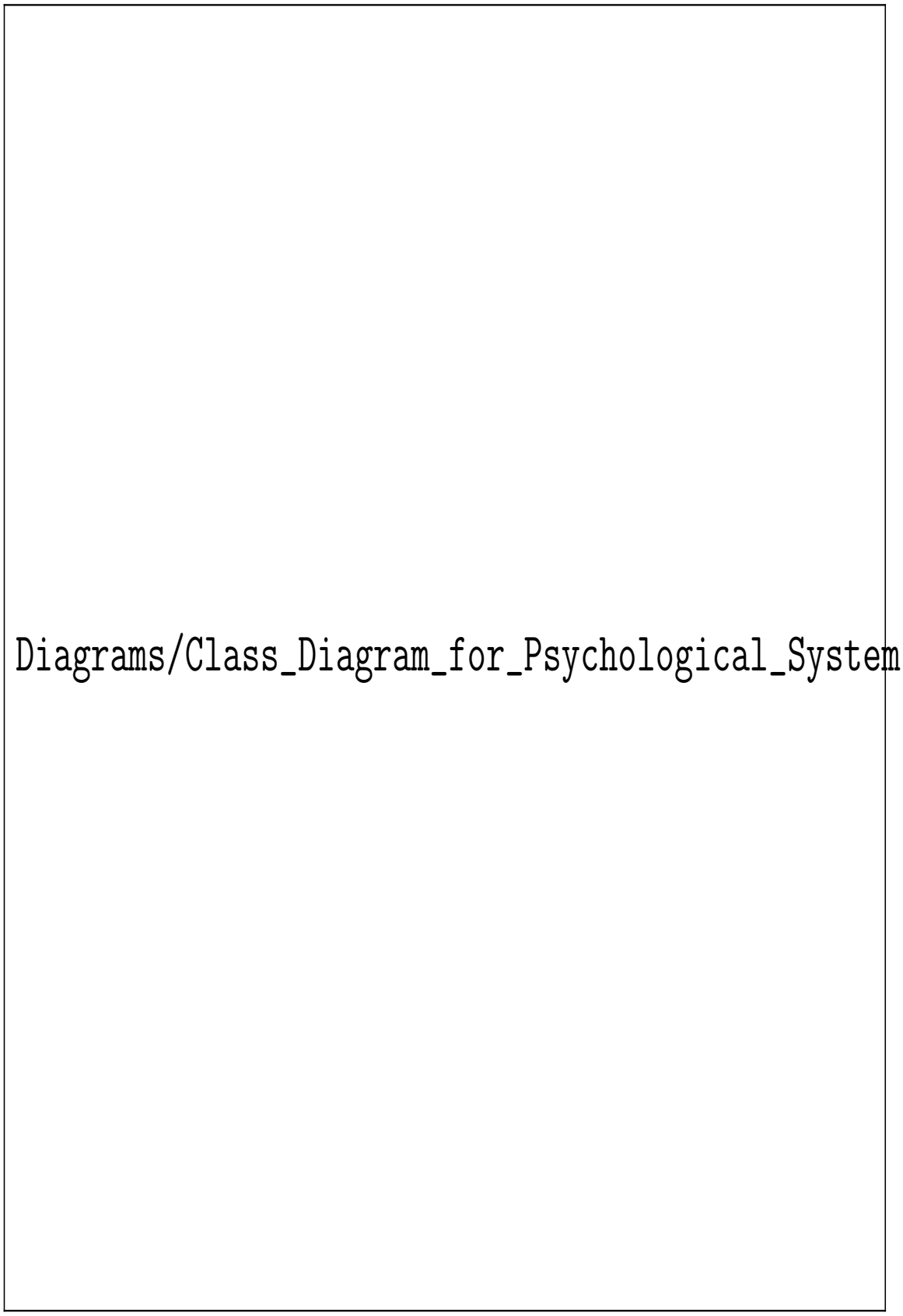


0.5.3 Use case diagram



0.5.4 Class diagram

Diagram



Dictionary

[../Psychological$_s ystem_w eb_a pplication.tex]subfiles$

Name	Sign Up
Actors	user(Receptionist, Lecturer, Client, Trainee, Psychologist, Manager)
Description	the user enters the website and then fills the required information from him and then an account is created for him on the site.
Data	SSN, First Name, Last Name, Email, Password, Birthdate, User type, Address, phone Numbers
Pr-Condition	user entering information into form
Basic Flow	1. Open Home Page 2. User fills all basic information about him (first name ,Last name ,Job Title, Department, Picture) 3. Click on create profile Button
Alternative Flow	If employee missed any information ,prompt him.
Post Condition	If The case completed Successfully, user has an account.
Comments	user must have an email and code.

Table 1: Registration

Name	Log In
Actors	user(Receptionist, Lecturer, Client, Trainee, Psychologist, Manager)
Description	user enters the needed information to enter his account on site.
Data	user-name Or Email , password
Pr-Condition	user entering information into form
Basic Flow	1. Open Home Page 2. Enter Email as User-name and Biometric Iris as Password 3. Click on Log-in Button
Alternative Flow	If The User-name or Password is incorrect The User is prompted to re-enter Information again.
Post Condition	If The case completed Successfully, user can access.
Comments	user must have an account on site.

Table 2: Log-In

Name	Log Out
Actors	user(Receptionist, Lecturer, Client, Trainee, Psychologist, Manager)
Description	user press log-out button to leave account.
Data	None.
Pr-Condition	user press log-out button.
Basic Flow	1. Press Setting button 2. press Log out button
Alternative Flow	If connection errors
Post Condition	user leaves his account must re-log-in.
Comments	user must be logged in to account on site.

Table 3: Log-Out

Name	Reserve Session
Actors	user(Receptionist, Lecturer, Trainee ,Client, Psychologist)
Description	user enters the needed information to reserve Session.
Data	Start Date, End Date, Start hour, End hour, Psychologist, Cost, Paid way.
Pr-Condition	User press to reserve Session button and enter the information needed then press submit to save the reservation.
Basic Flow	1. Press reservation button 2. Enter required Data 3. press submit
Alternative Flow	If user Enter invalid data or did not press submit button
Post Condition	Create Appointment to him with the Specific Psychologist.
Comments	user must have an account on site.

Table 4: Reserve Session

Name	Cancel reservation
Actors	user(Receptionist, Lecturer, Trainee ,Client, Psychologist)
Description	user wants to cancel session or course.
Data	None.
Pr-Condition	User reserve session or course.
Basic Flow	1. Press List of reservation 2. choose an event that will cancel 3. press cancel button
Alternative Flow	If user wants to cancel after 24 hours to session, or if he cancel after preparing the tools of courses.
Post Condition	Cancel reservation of course or session.
Comments	user must have an account on site.

Table 5: Cancel reservation

Name	Read report
Actors	user(Manager, Receptionist, Lecturer, Trainee ,Client, Psychologist)
Description	all users read them reports in the system.
Data	ID, Title, Date, Time, body, footer, signature.
Pr-Condition	found Writing reports.
Basic Flow	1. Press on List of reports 2. choose a report that will read it 3. press on it
Alternative Flow	If report had damaged, or not permission for you.
Post Condition	opening report as read only.
Comments	user must have an account on site, and have some activities on site.

Table 6: read report

Name	Write report
Actors	user(Lecturer, Psychologist)
Description	lecturer and Psychologist Write reports of courses or sessions, or the system generate some reports.
Data	ID, Title, Date, Time, body, footer, signature.
Pr-Condition	Psychologist or lecturer has session or course.
Basic Flow	1. Press on List of reports 2. press on crate button 3. press on save report button
Alternative Flow	If Psychologist or lecturer did not press on save report button, or Enter invalid data.
Post Condition	Creating report.
Comments	user must have an account on site, and have some activities on site.

Table 7: Write report

Name	Create new course
Actors	user(Lecturer)
Description	lecturer wants to create Course on the site.
Data	ID, Name, Cost, prerequisites, Description, hours.
Pr-Condition	lecturer's account activated.
Basic Flow	1. Press on create Course 2. enter required data 3. press on submit button
Alternative Flow	If lecturer did not press on submit button after creating course, or the course previously created on the system.
Post Condition	Added course.
Comments	user must have an account on site, and have some activities on site.

Table 8: Create New Course