CAREER INFORMATION AND RECRUITMENT PORTAL

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CONTENTS

PROBLEM STATEMENT

- Students can’t find the right job.
- Recruiters can’t access student details.
- Important functions may be missed.
- Students miss recruiter updates.
- No effective placement cell management.

MOTIVATION

- Provide a user-friendly recruitment portal platform.
- Ease the work of staffs.
- Provide medium to choose best companies and employees.
- Provide categorized and suitable jobs.
- Increase knowledge about job resources.

OBJECTIVES

- Developing a web application for career information and recruitment.
- Connect students, colleges, recruiters and alumni.
- Ease of job application.
- Easily maintain job information and applications.
- Easily review CV of student or alumni.
- Recruiters can easily maintain job details.

SYSTEM STUDY

EXISTING SYSTEM

- Manually maintained
- Time consuming
- Difficult to updating data
- Errors can occur
- Data storing is difficult

PROPOSED METHODOLOGY

- A secure and easy-to-use web application in Java using Spring boot and Spring security frameworks
- Placement cell management for colleges
- Student or alumni hiring for recruiters
- Job finding opportunity for student and alumni

FEASIBILITY STUDY

- Feasible on a system with basic requirements
- Technical feasibility: easy to use
- Easy to maintain the operation
- Schedule and maintenance is easier
- Low budget

REQUIREMENTS GATHERING AND ANALYSIS

END-USER REQUIREMENTS

- PC with basic requirements
- Stable network connection

HARDWARE REQUIREMENTS

- 4 GHz minimum, multi-core processor
- RAM: Minimum 2 GB
- Hard disk space: Minimum 10 GB

SOFTWARE REQUIREMENTS

- Operating System:
  - Windows 7+
  - Mac OS X Yosemite 10.10+
  - Linux: 64-bit Ubuntu 14.04+, Debian 8+, openSUSE 13.3+ or Fedora Linux 24+
- Front end: Thymeleaf
- Back end: Spring boot, Spring security and MongoDB
- Web server: Embedded Tomcat
- Supported browsers: Chrome, Firefox, Internet Explorer 9+
- Java 1.8+

SRS DOCUMENT

Software Requirements Specification (SRS), documents all expected functionalities of a system/application by the end user.

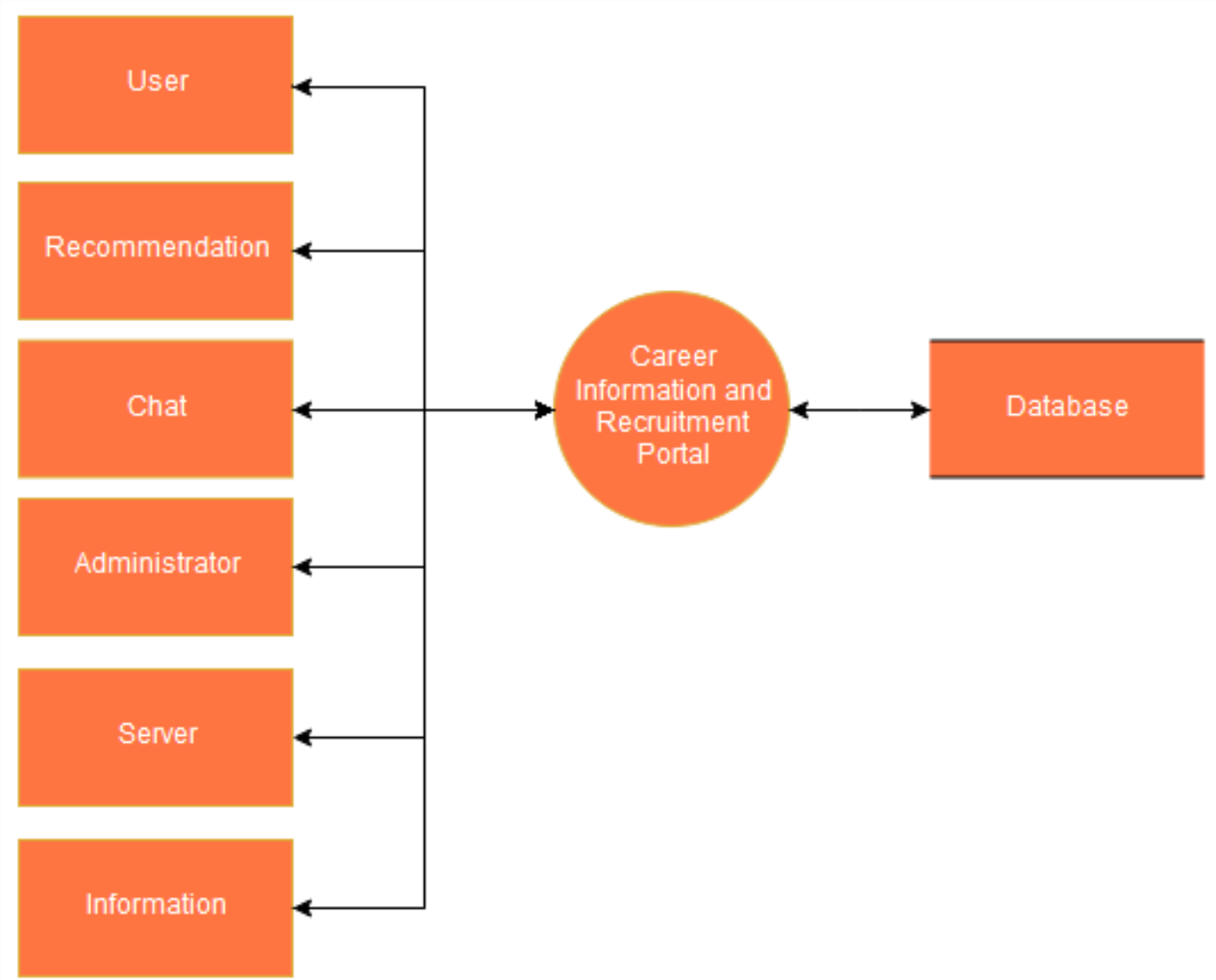
Our SRS Document for this project can be found from here.

DESIGN

A high level design of our project including all modules, functions, priorities and iterations has been made into an excel spreadsheet and can be found from here.

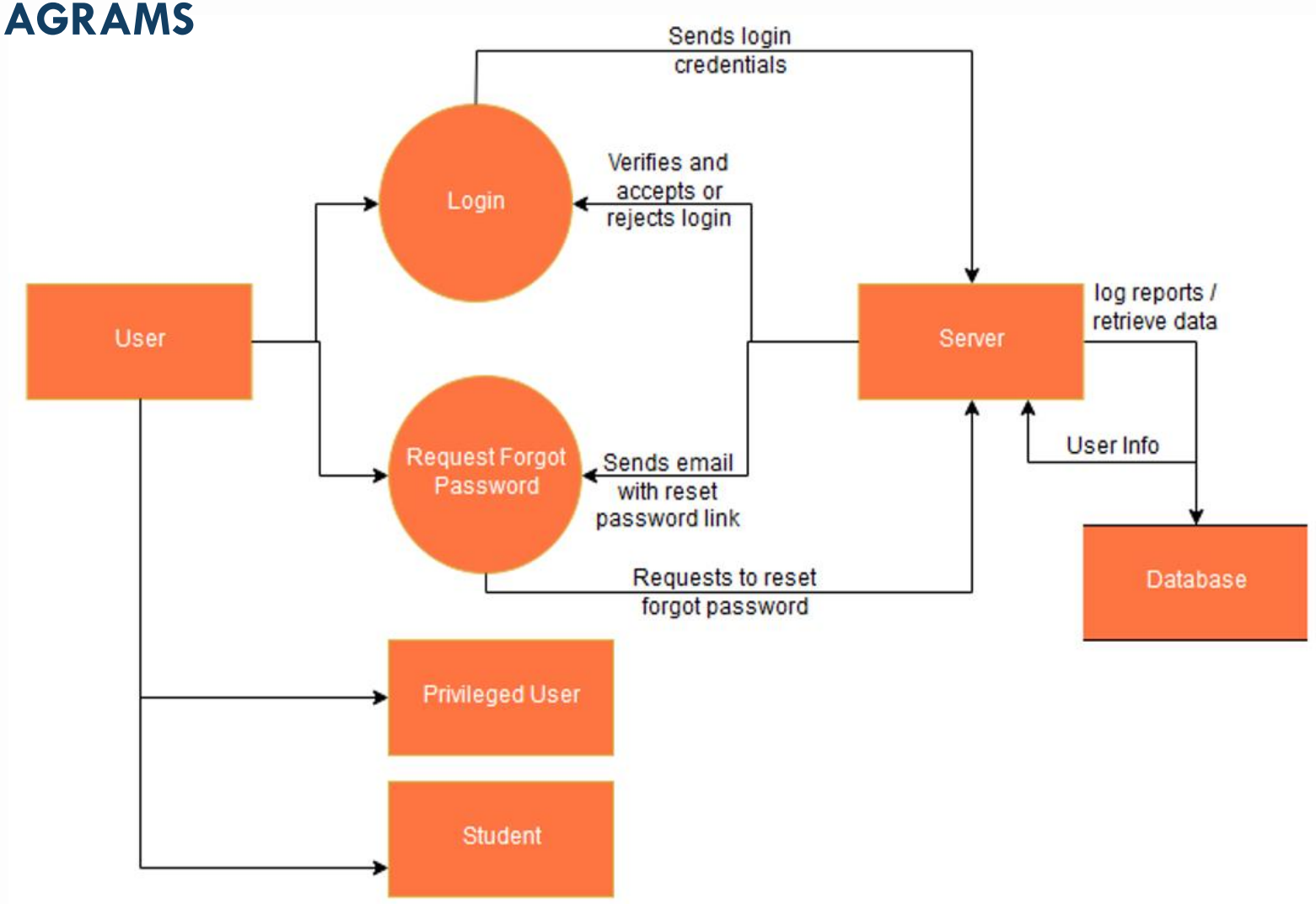
DATA FLOW DIAGRAMS

LEVEL 0

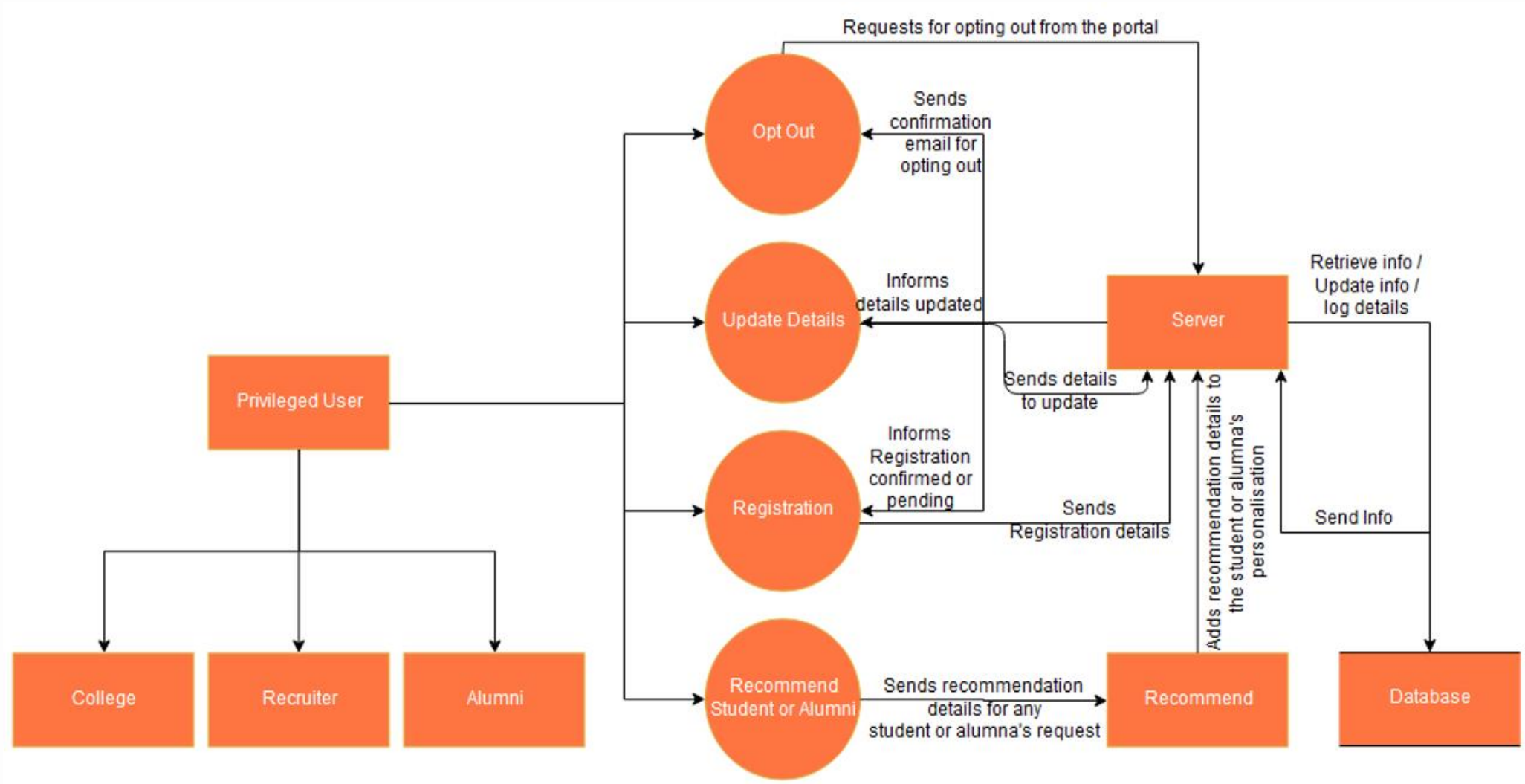


Level 0. Context Diagram for Career Information and Recruitment portal.

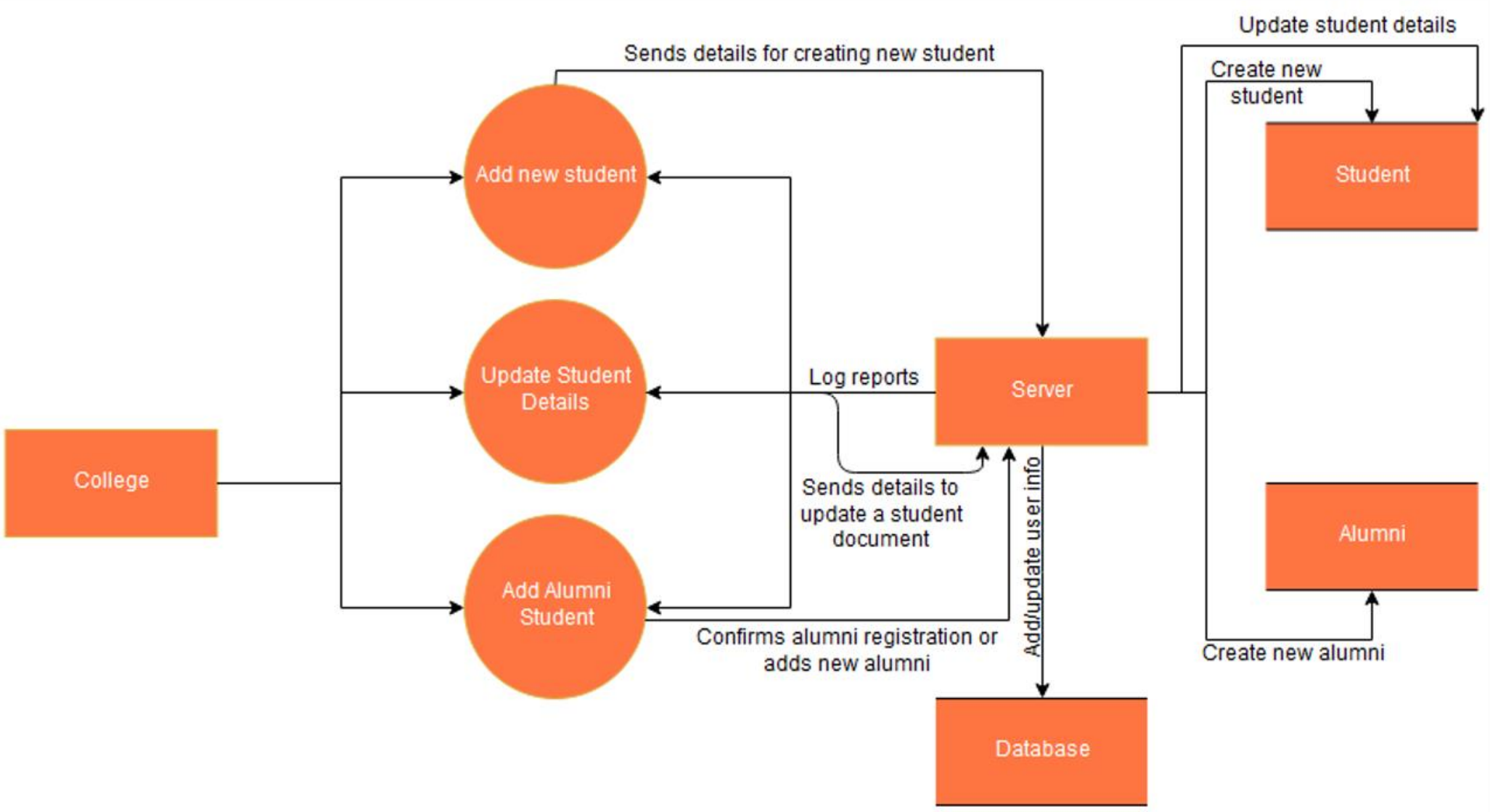
LEVEL 1 DIAGRAMS



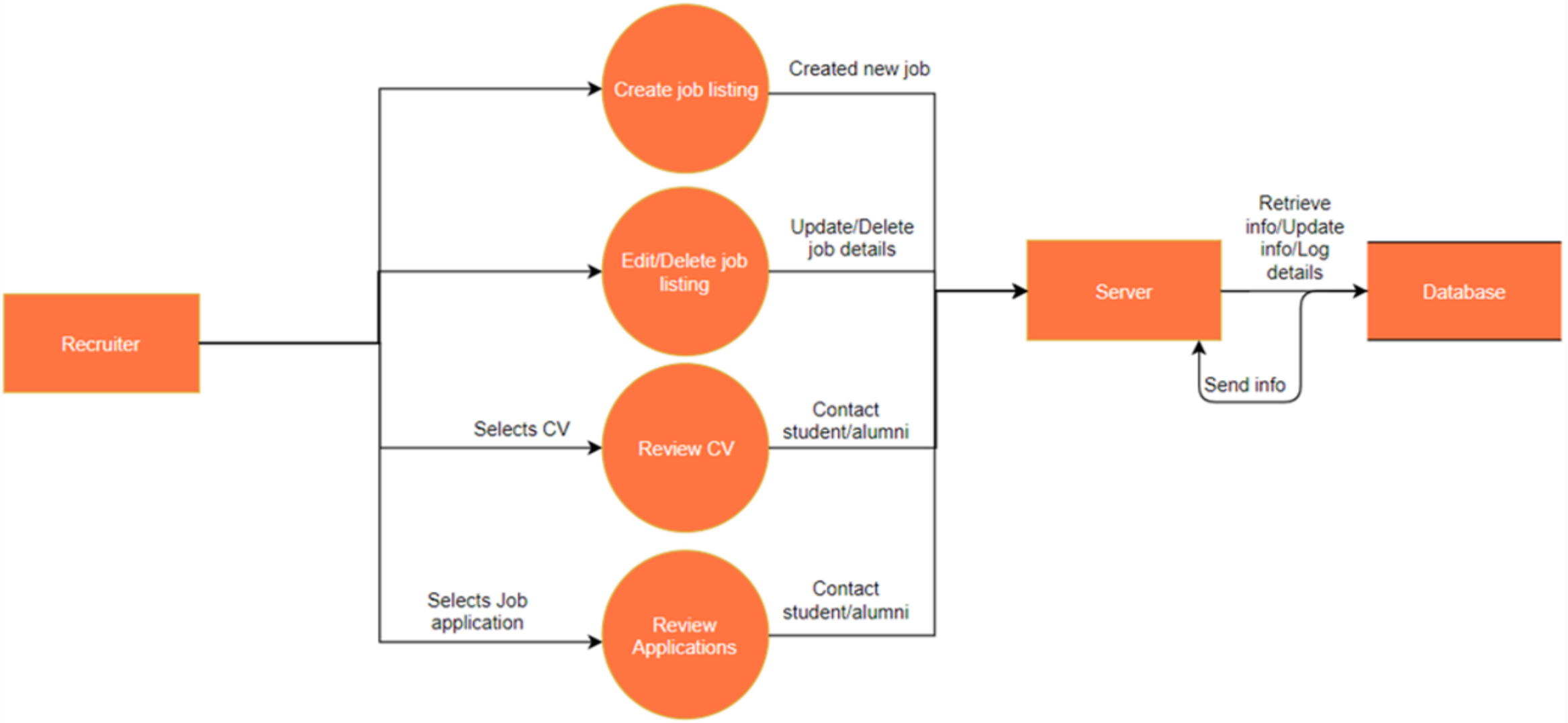
Level 1.1 User module - implemented as class



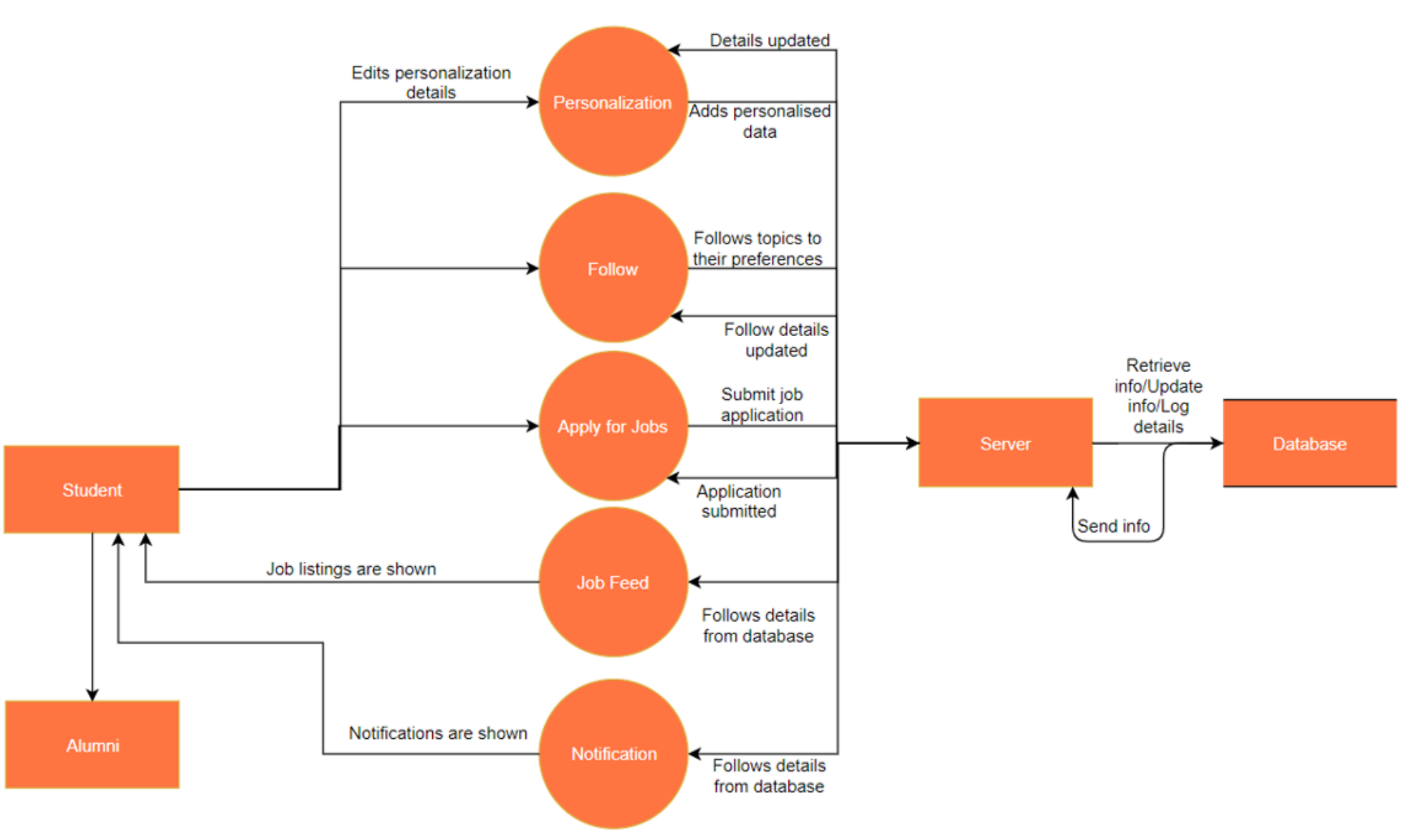
Level 1.1.1 - Privileged User (sub-module of User (1.1), implemented via interfaces only)



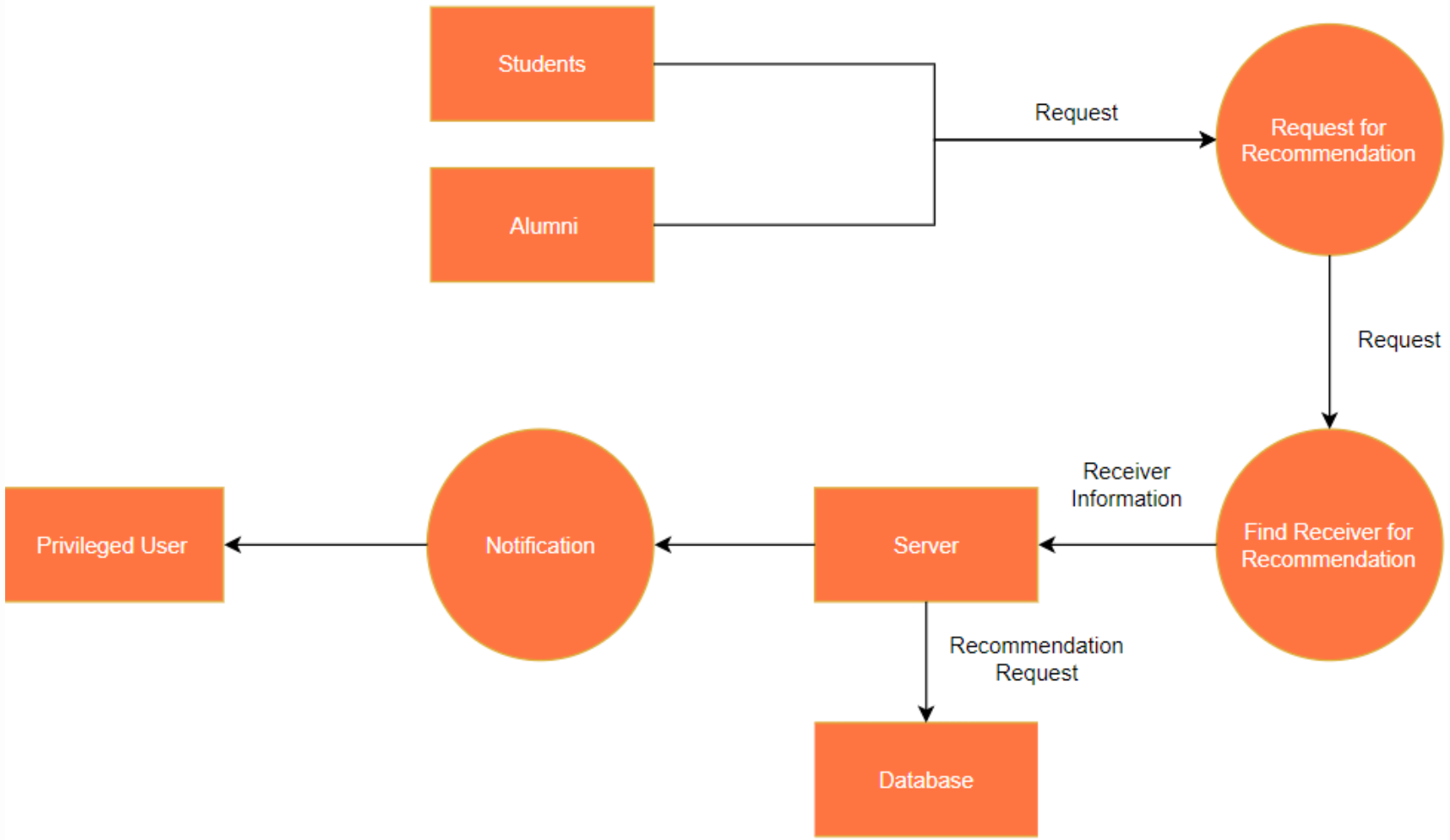
Level 1.1.1.1 - College module (implements Privileged User interface, implemented as class)



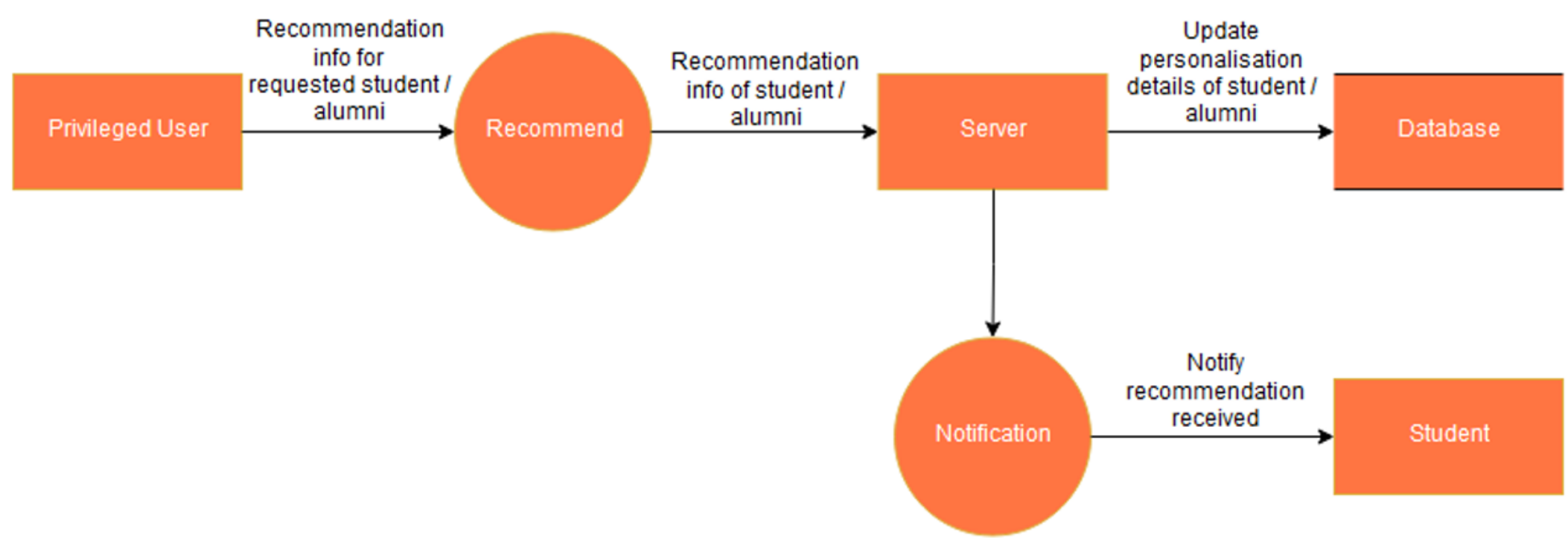
Level 1.1.1.2 - Recruiter module (implements Privileged User interface, implemented as class)



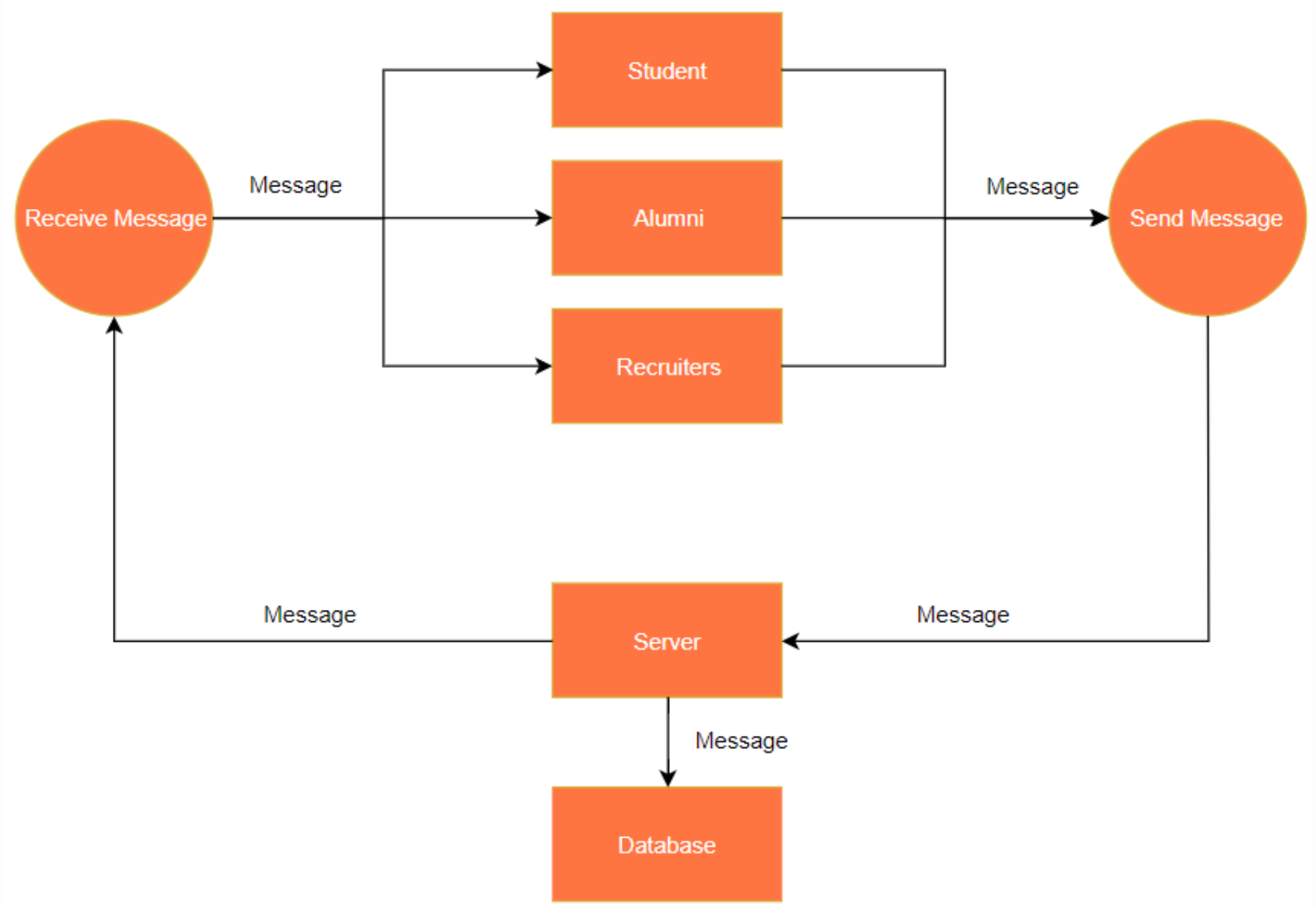
Level 1.1.2 - Student (Sub-module of User (1.1), implemented as class)



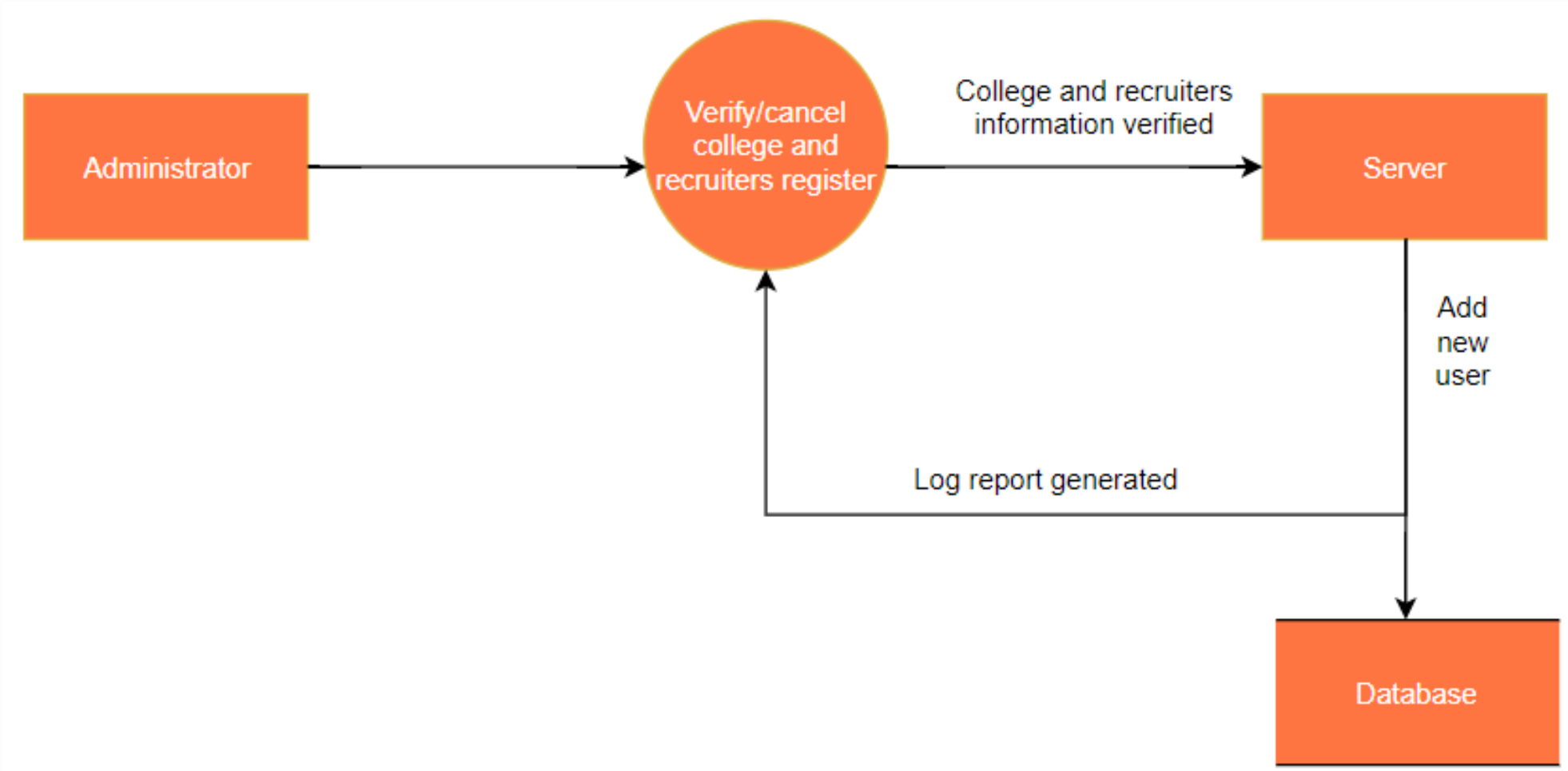
Level 1.2.1 - Request Recommendation (Recommendation module (1.2) has two functions - Request Recommendation and Recommend, both are implemented via separate interfaces and hence considered as sub-modules.)



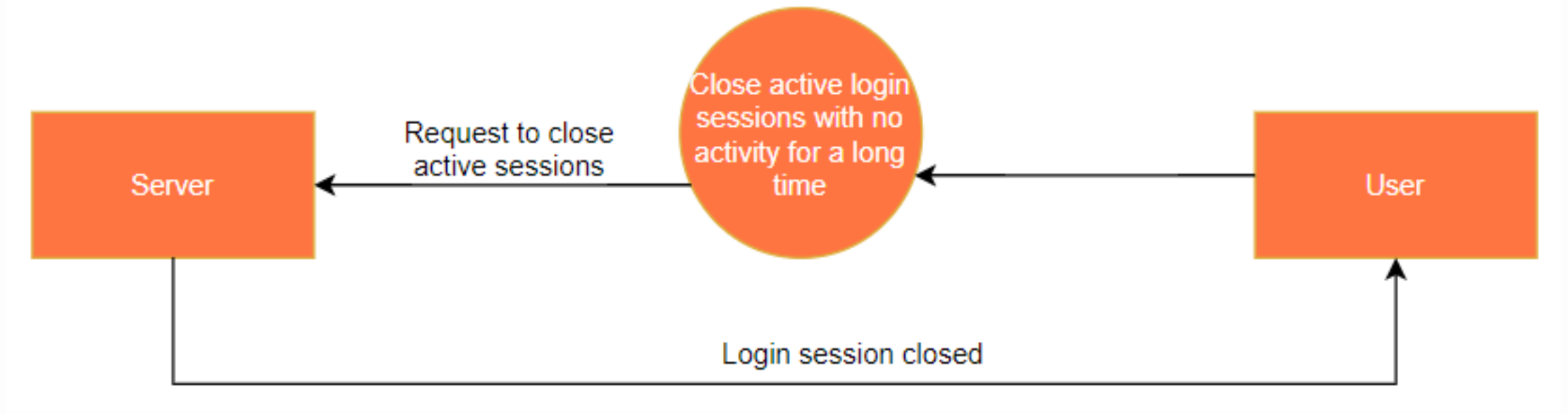
Level 1.2.2 - Recommend (Recommendation module (1.2) has two functions - Request Recommendation and Recommend, both are implemented via separate interfaces and hence considered as sub-modules.)



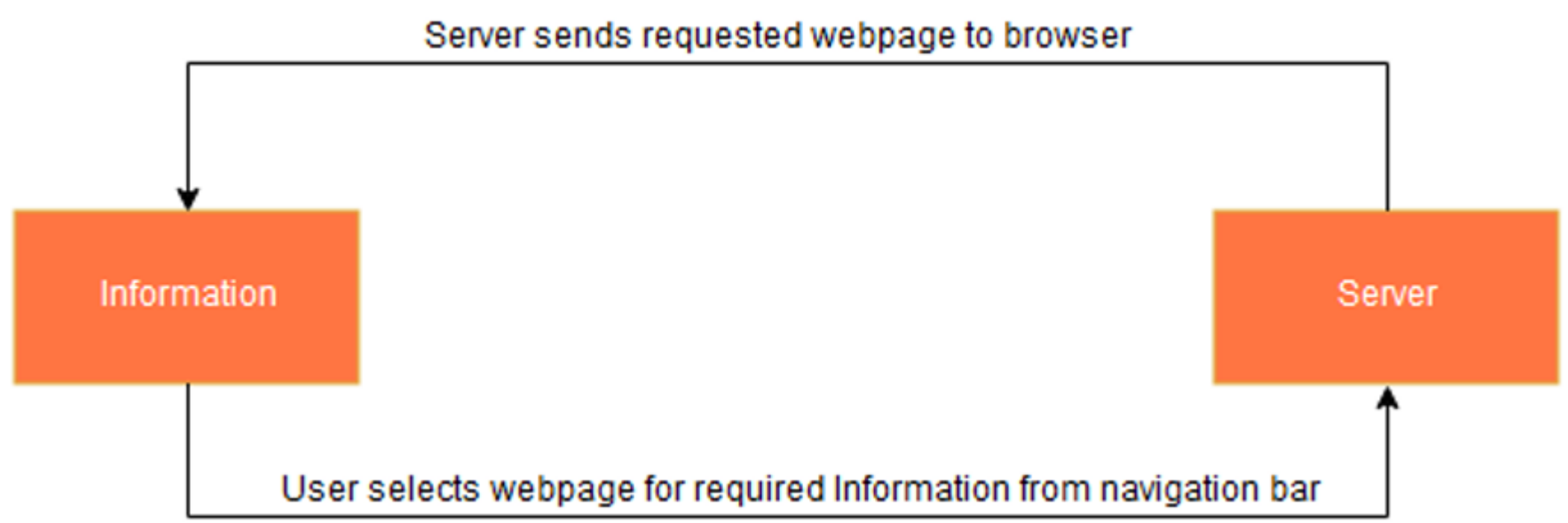
Level 1.3 - Chat (Implemented via interfaces only, implemented by Recruiter and Student classes)



Level 1.4 - Administrator module (Implemented as class)

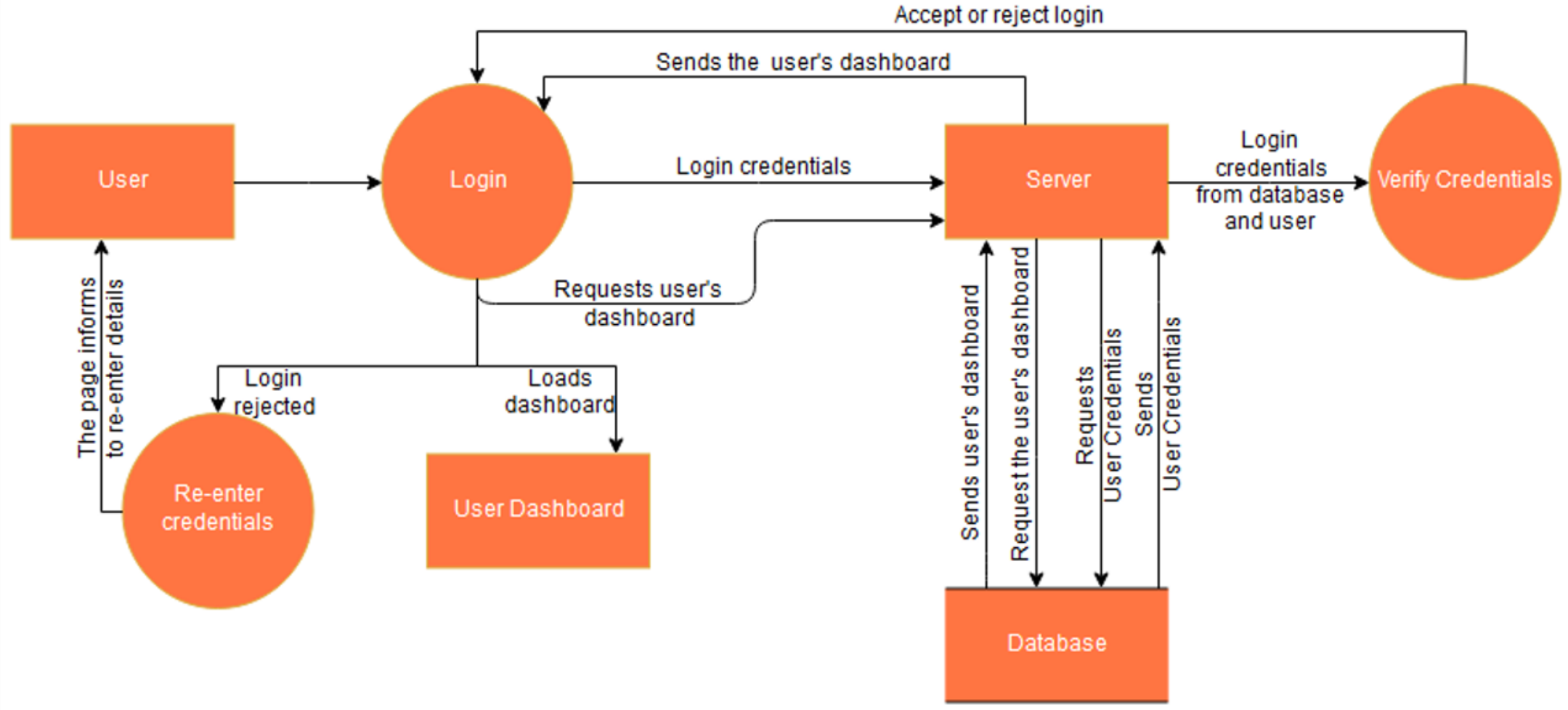


Level 1.5 - Server module (Implemented as class)

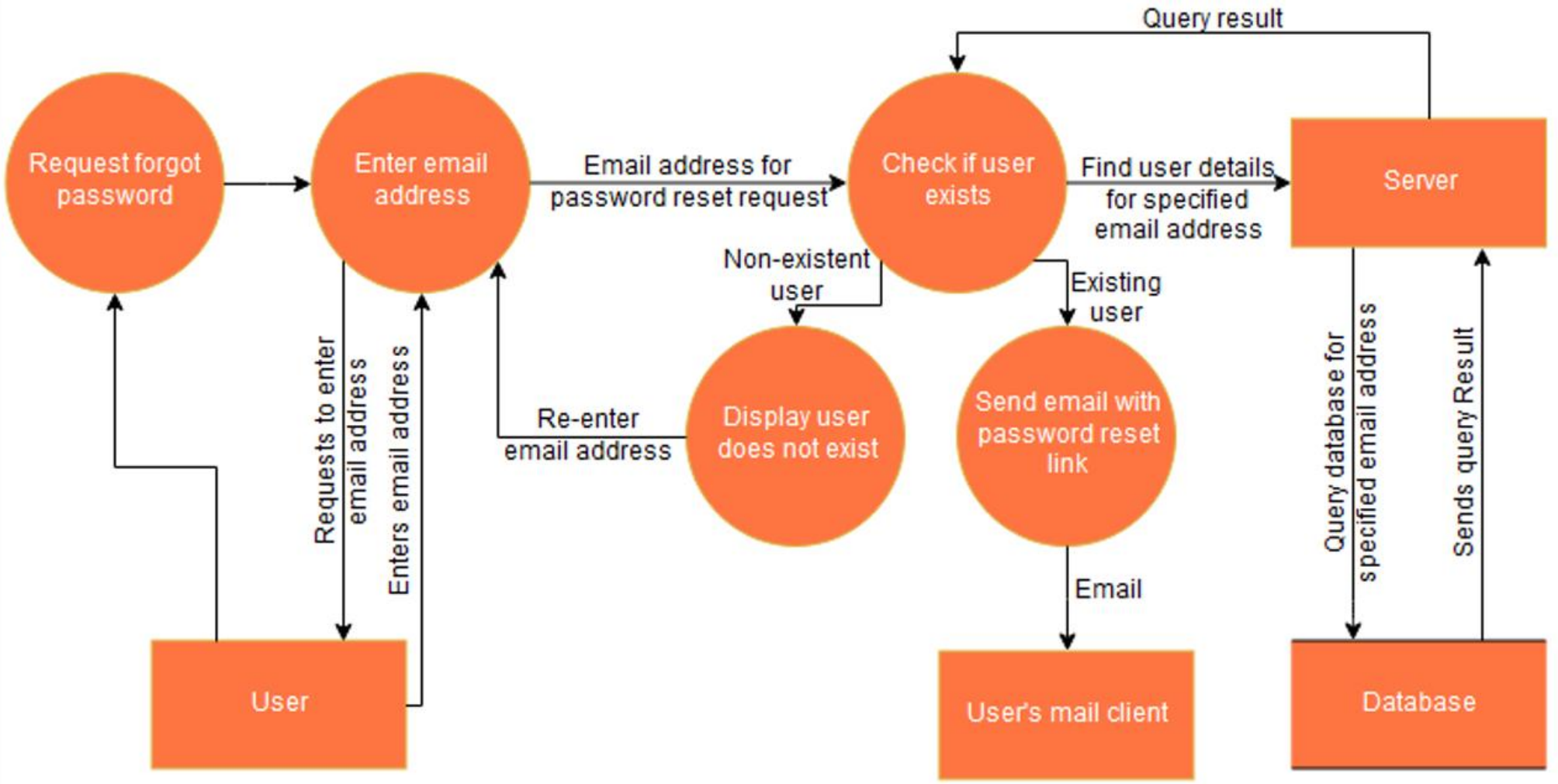


Level 1.6 - Information module (module used to display web pages for career information)

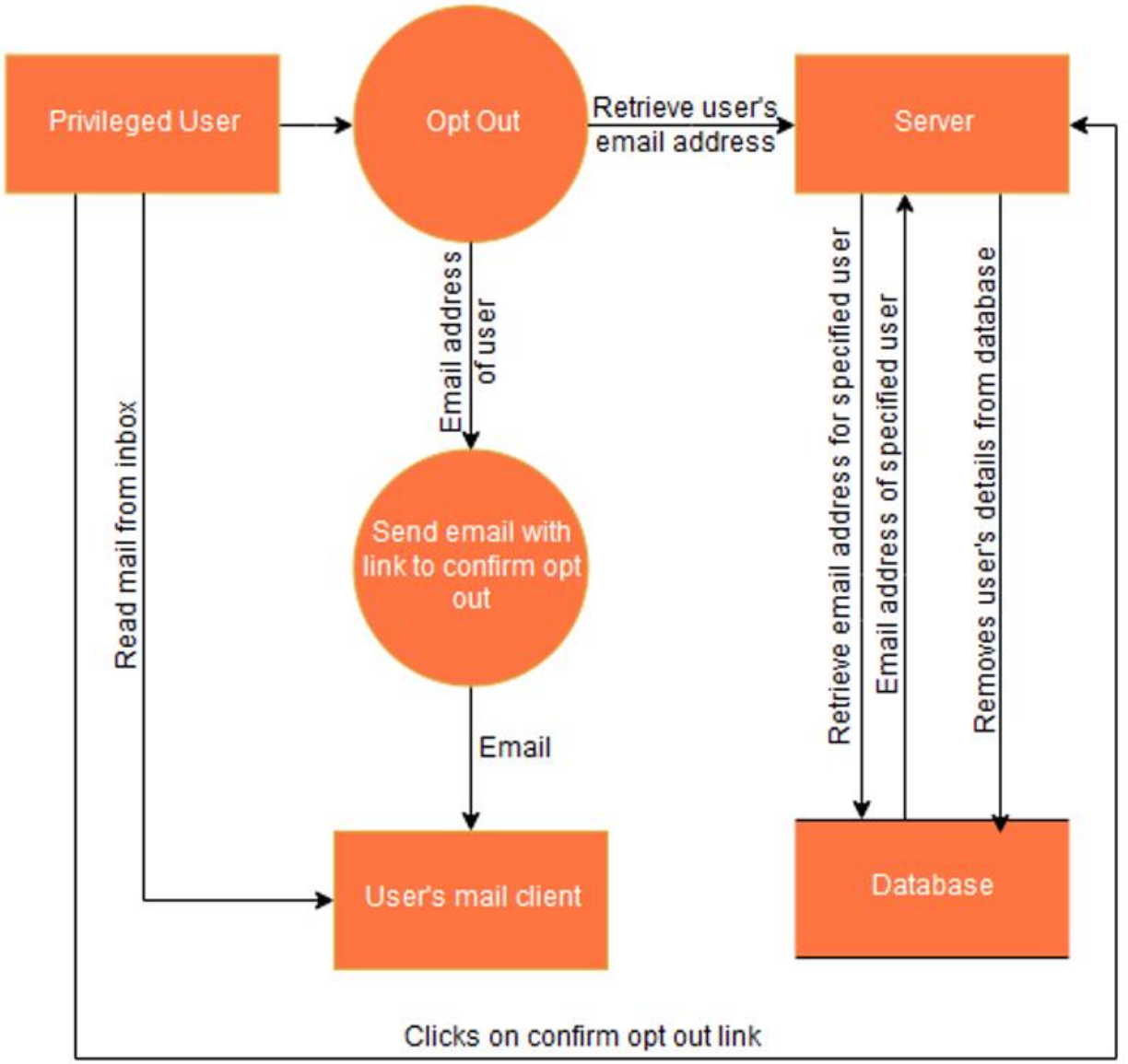
LEVEL 2 DIAGRAMS



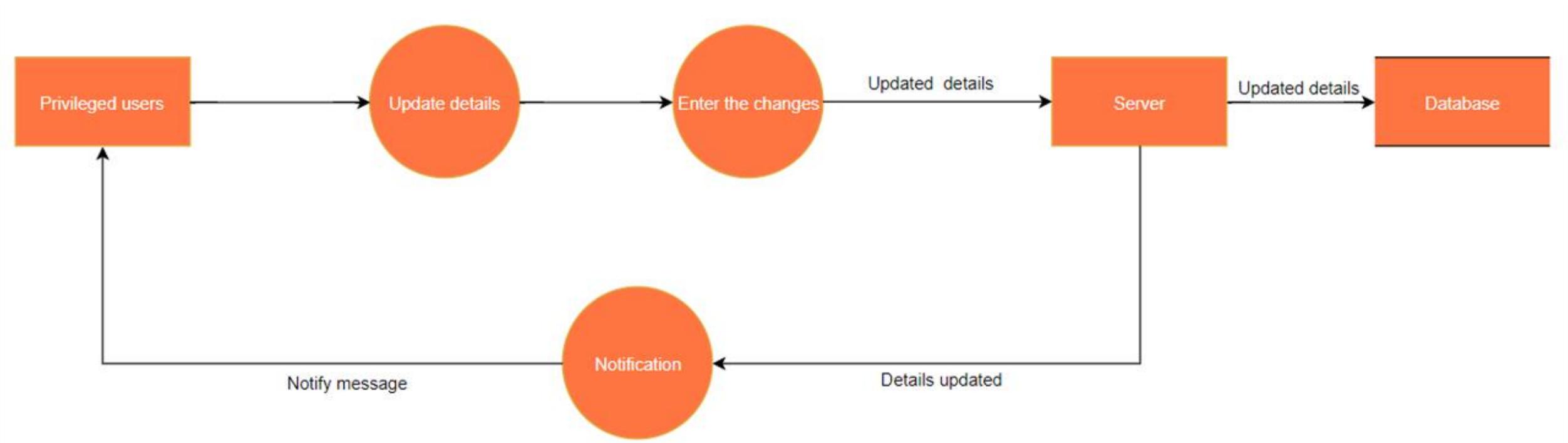
Level 2.1 - User login



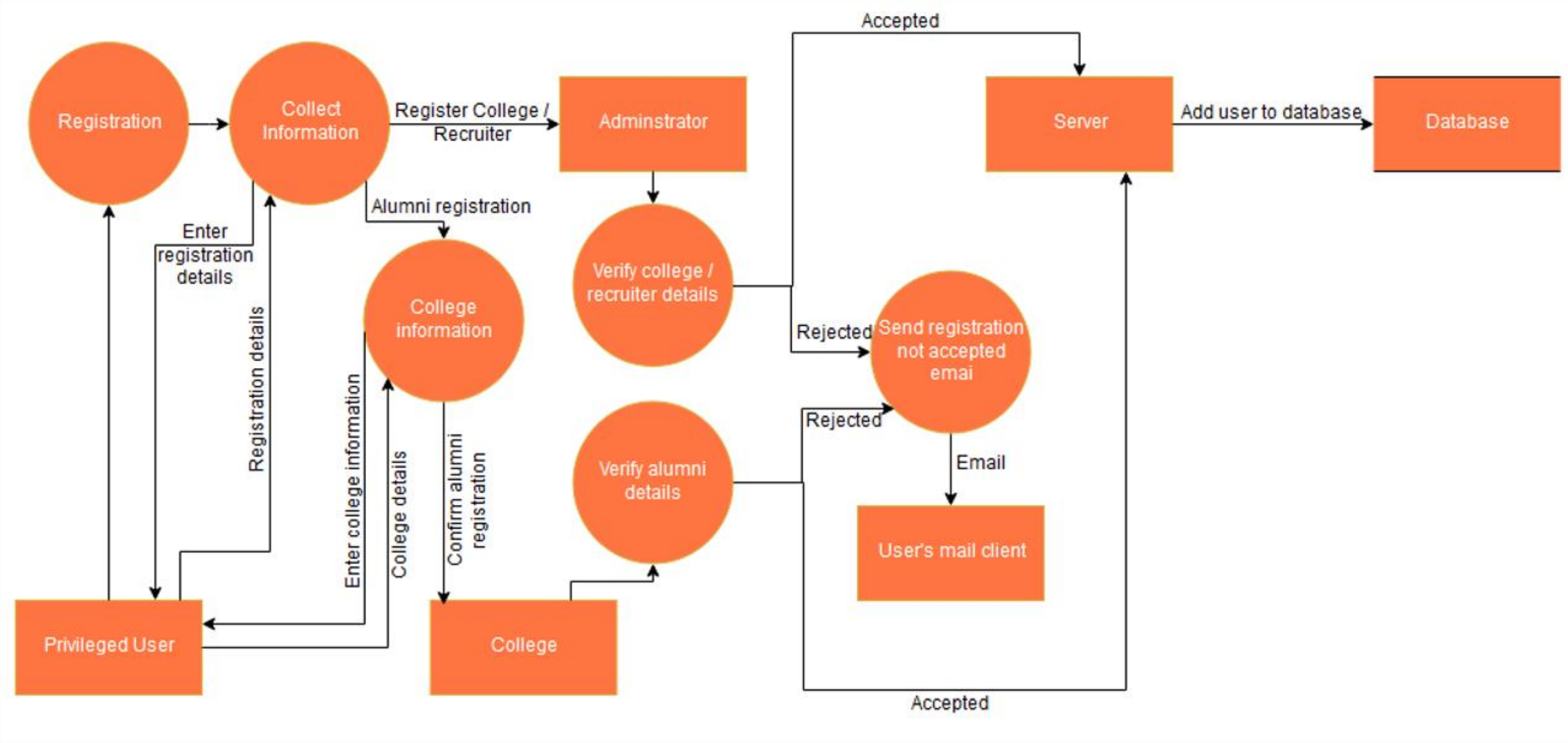
Level 2.2 - Request for forgot password



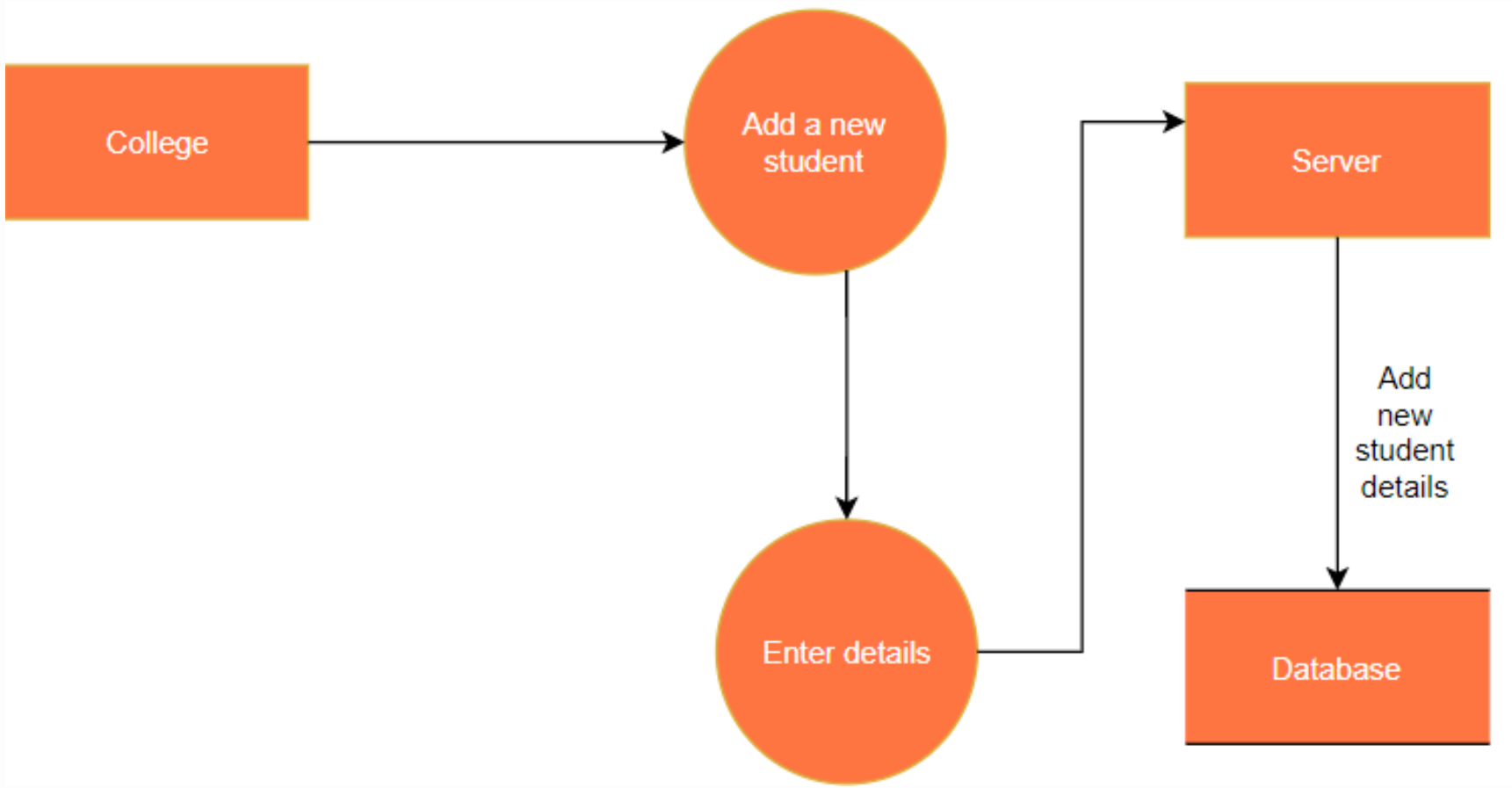
Level 2.3 - Opt out request by any privileged user



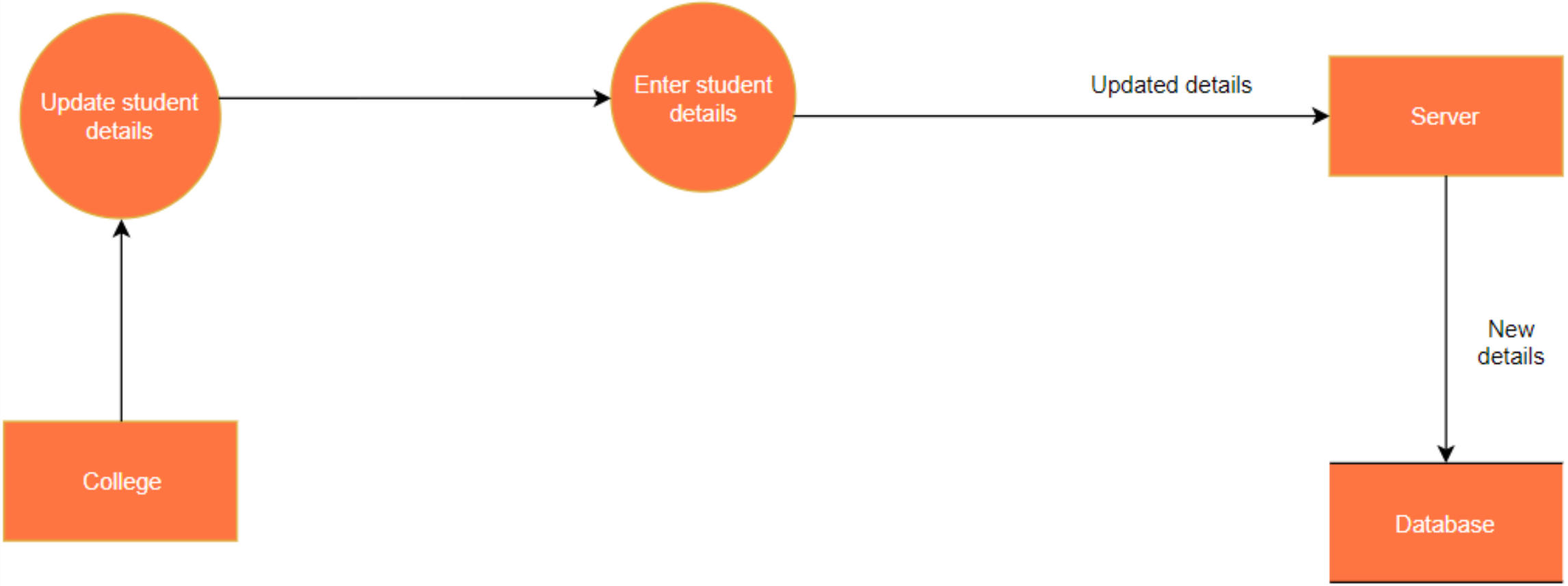
Level 2.4 - Update details of any privileged user



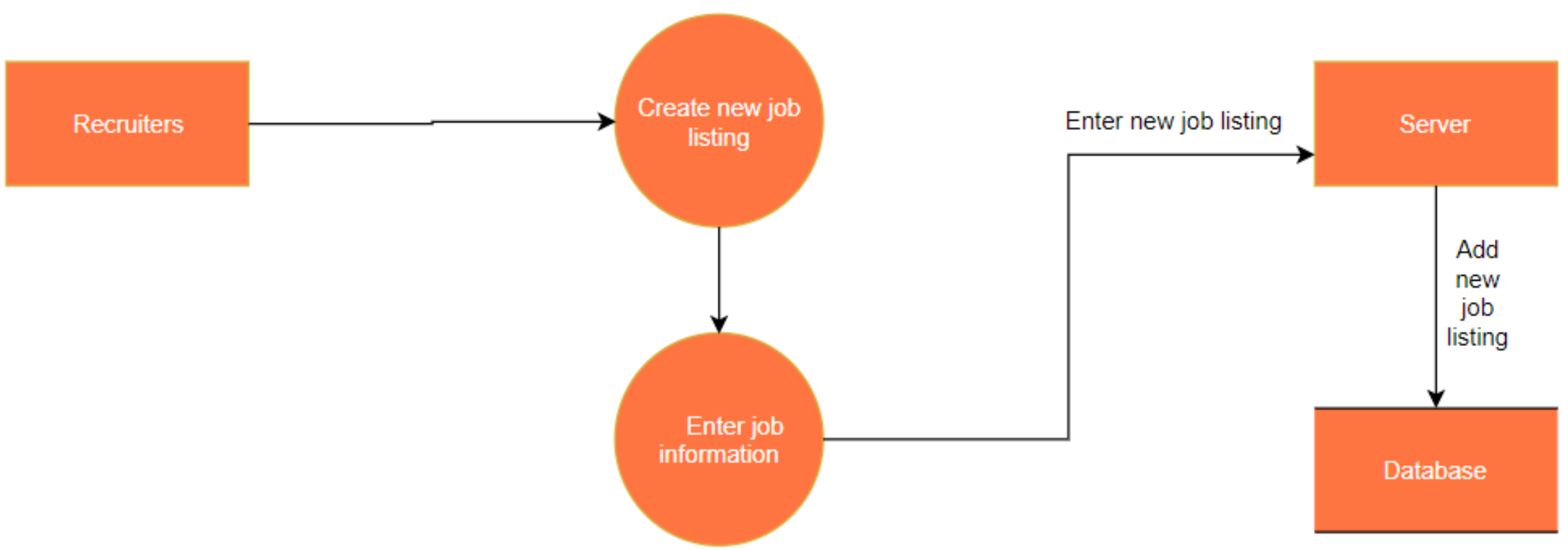
Level 2.5 - Registration of any privileged user



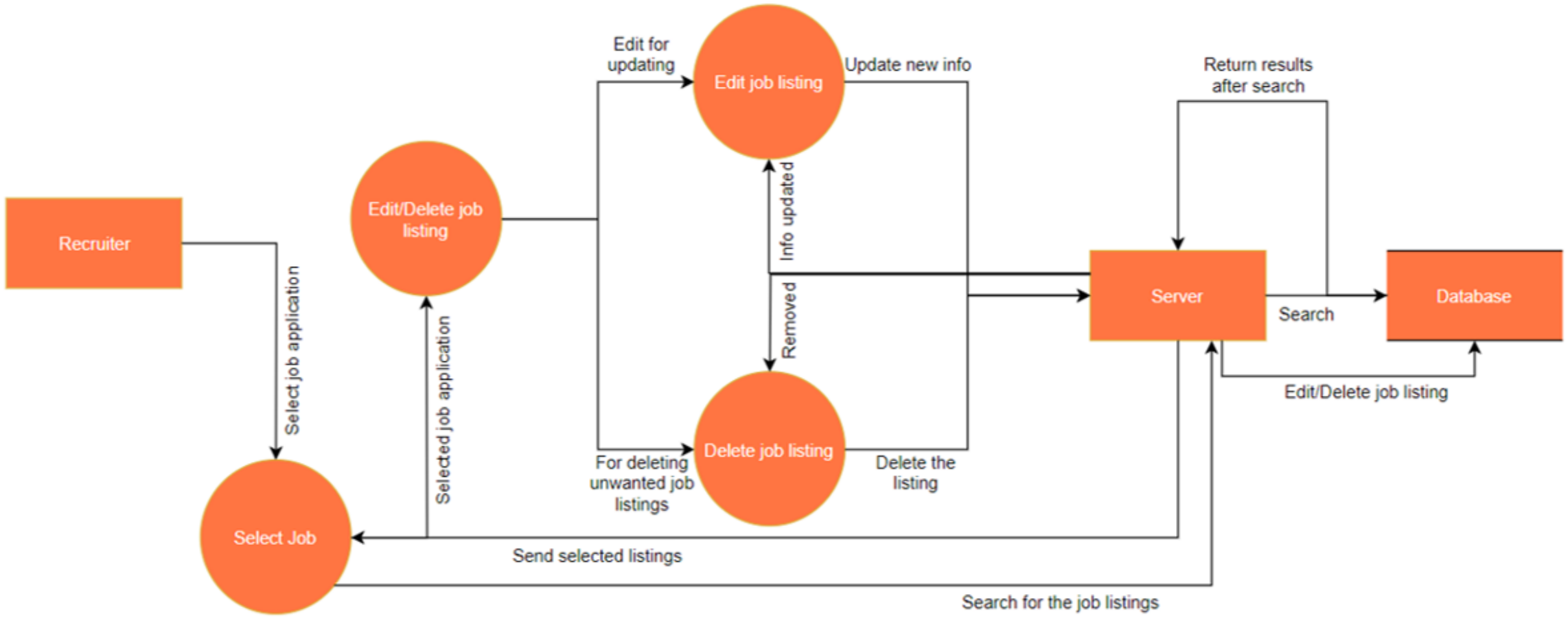
Level 2.6 - Add new student by college



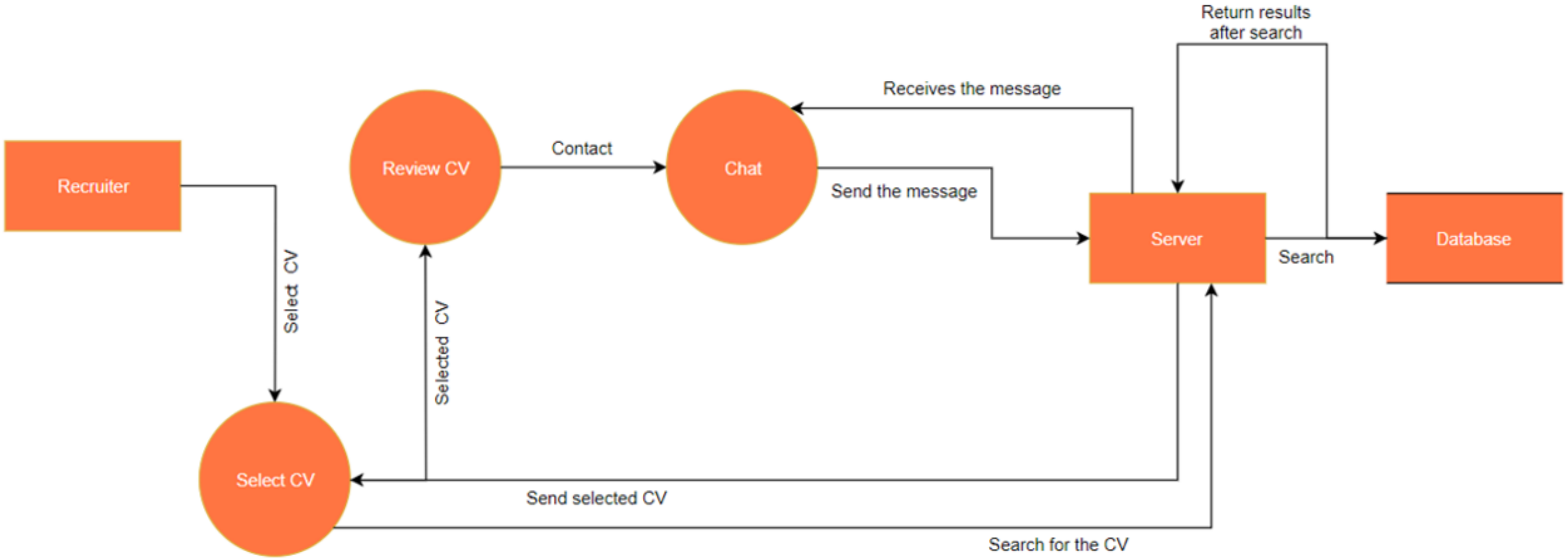
Level 2.7 - Update student details by college



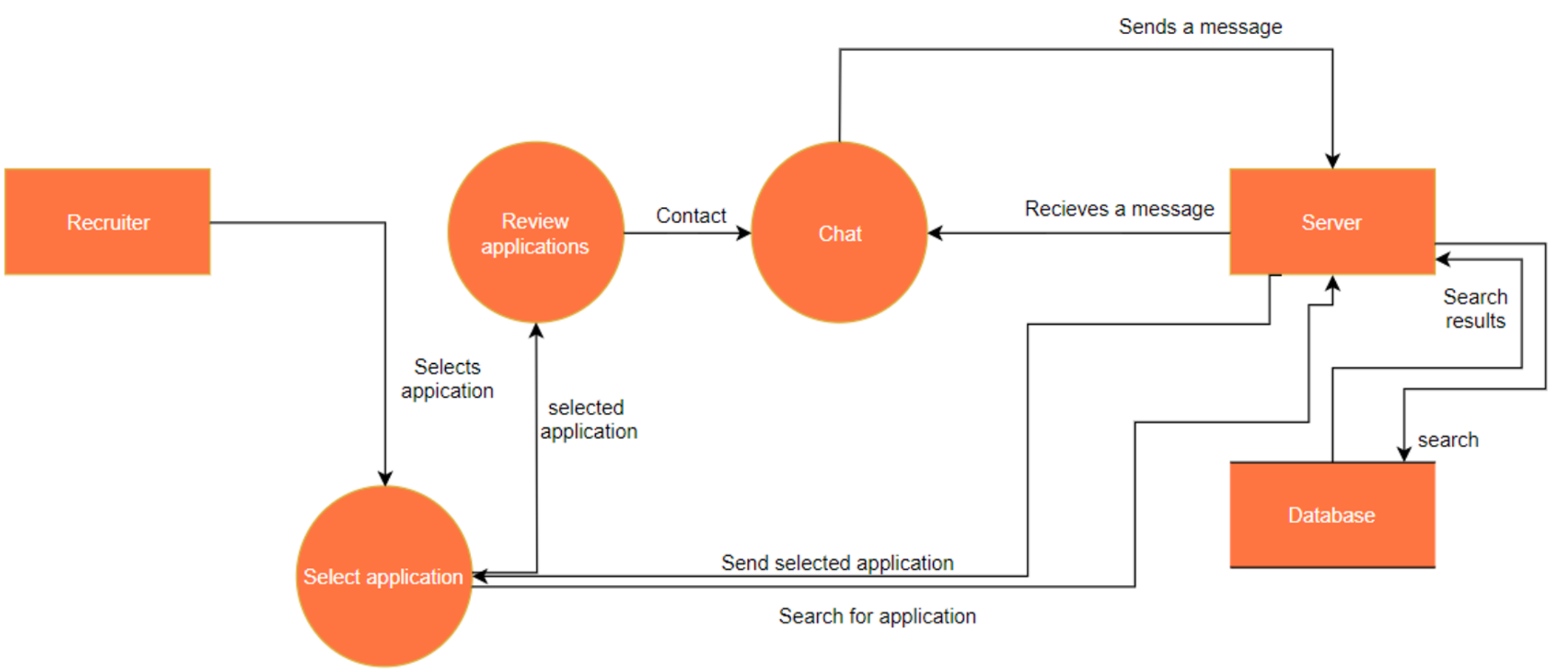
Level 2.8 - Create new job listing by Recruiter



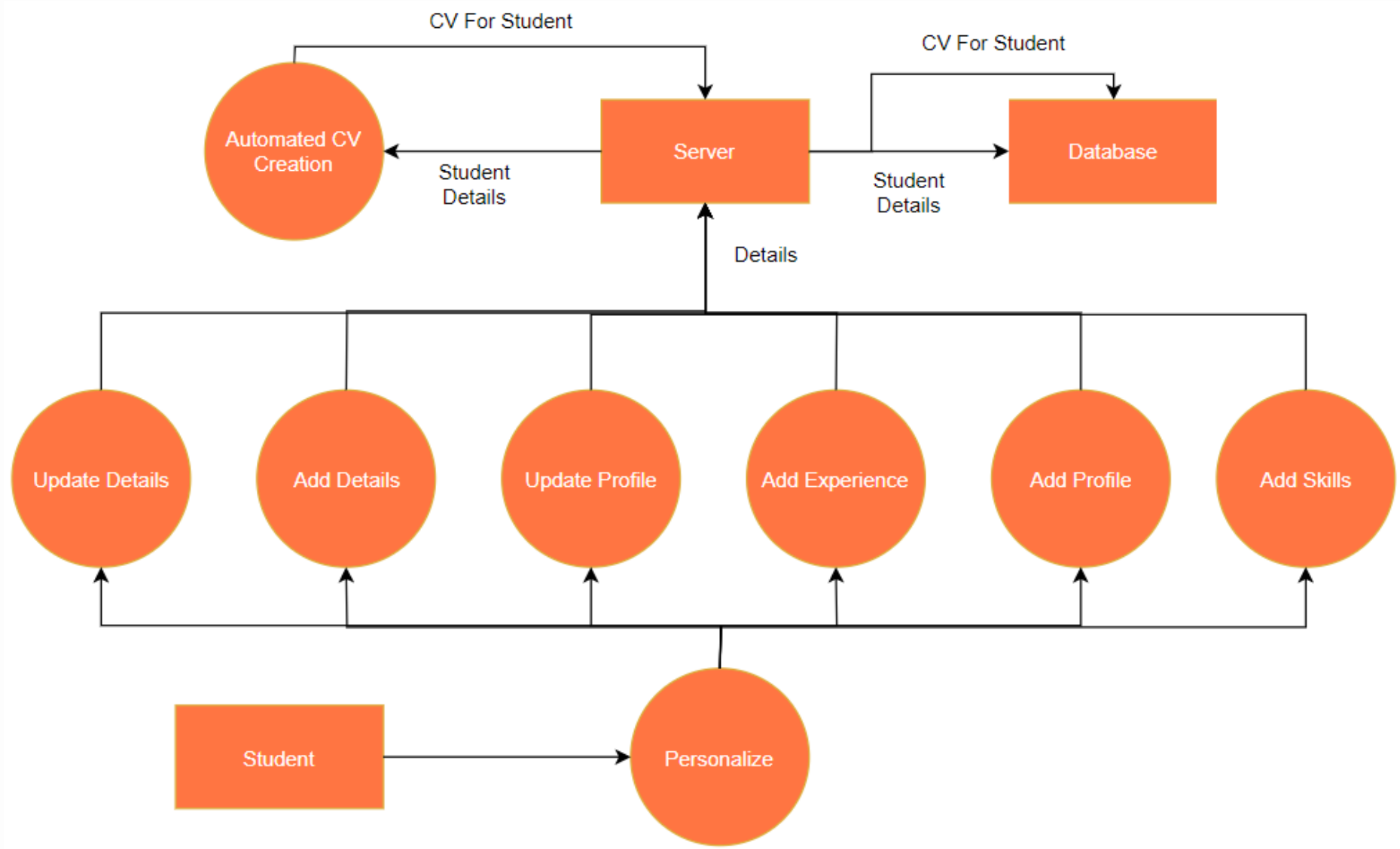
Level 2.9 - Edit or delete job listing by recruiter



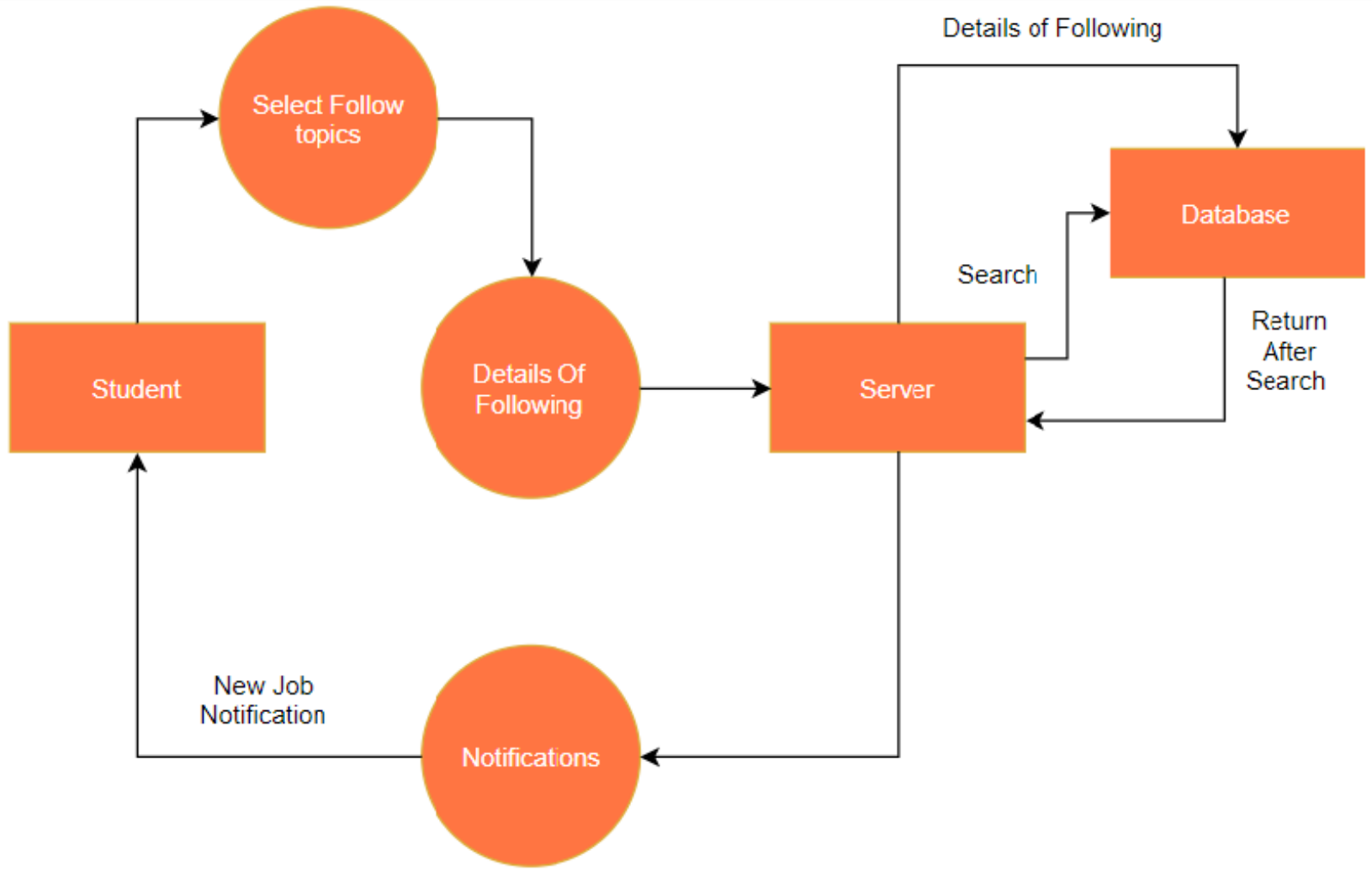
Level 2.10 - Review CV by Recruiter



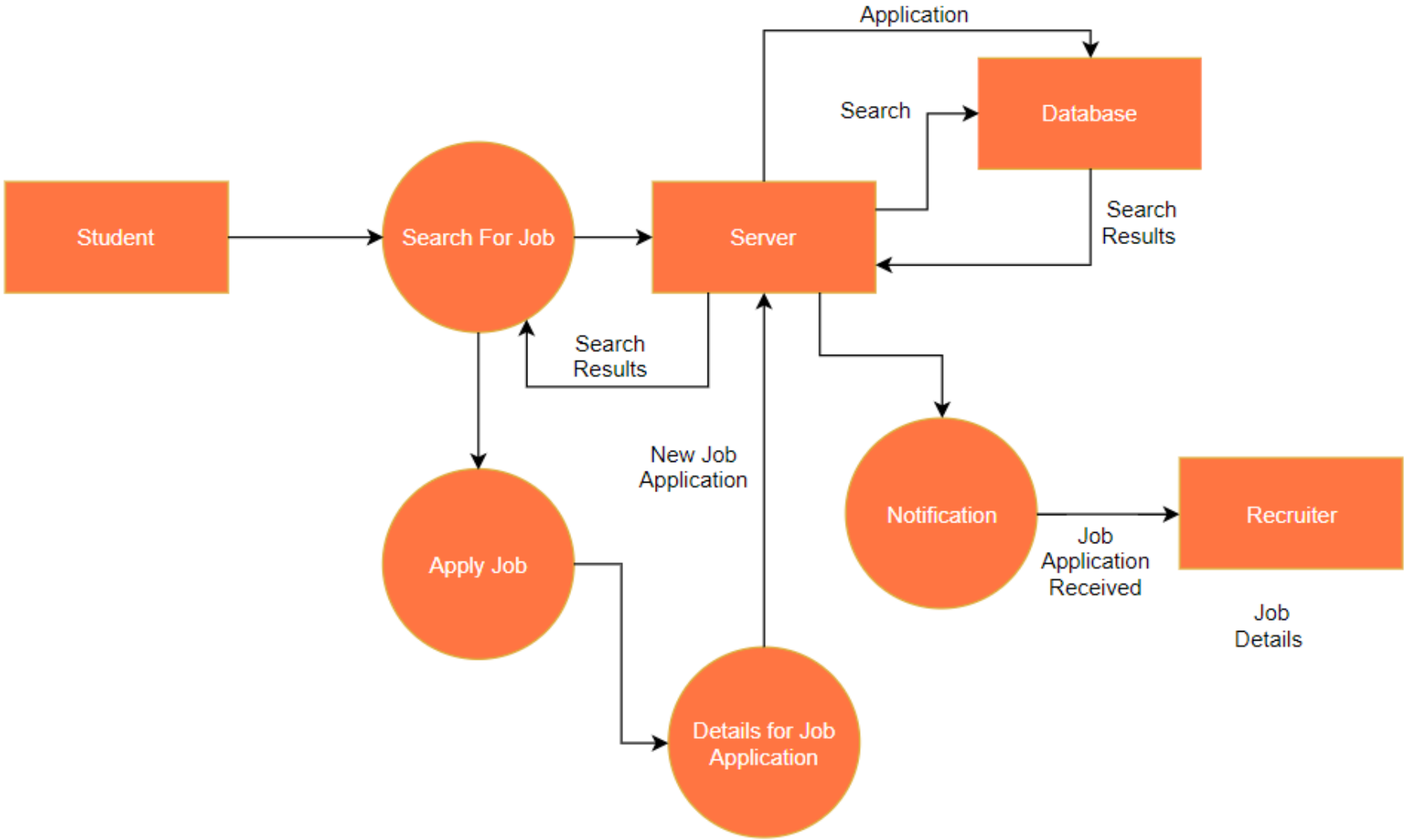
Level 2.11 - Review applications by recruiter



Level 2.12 - Entering personalization details by student



Level 2.13 - Following topics or recruiters by student



Level 2.14 - Apply for job by student

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[3] Barber L. (Mar 2006). e-Recruitment Developments. Institute for Employment Studies, Brighton. [Online] Available: https://www.employment-studies.co.uk/resource/erecruitment-developments

[4] Ranga Karanam, *Creating a Web Application with Spring Boot*, DZone, Jun. 02, 2017. Accessed on: Jul. 08, 2020. [Online] Available: https://dzone.com/articles/creating-a-web-application-with-spring-boot

THANK YOU!