

# T&P CELL PORTAL

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# INTRODUCTION

- The aim of the project was to create a portal which can serve as a medium of communication between students and companies.
- This portal is built on Ruby on Rails framework and uses PostgreSQL for database management.

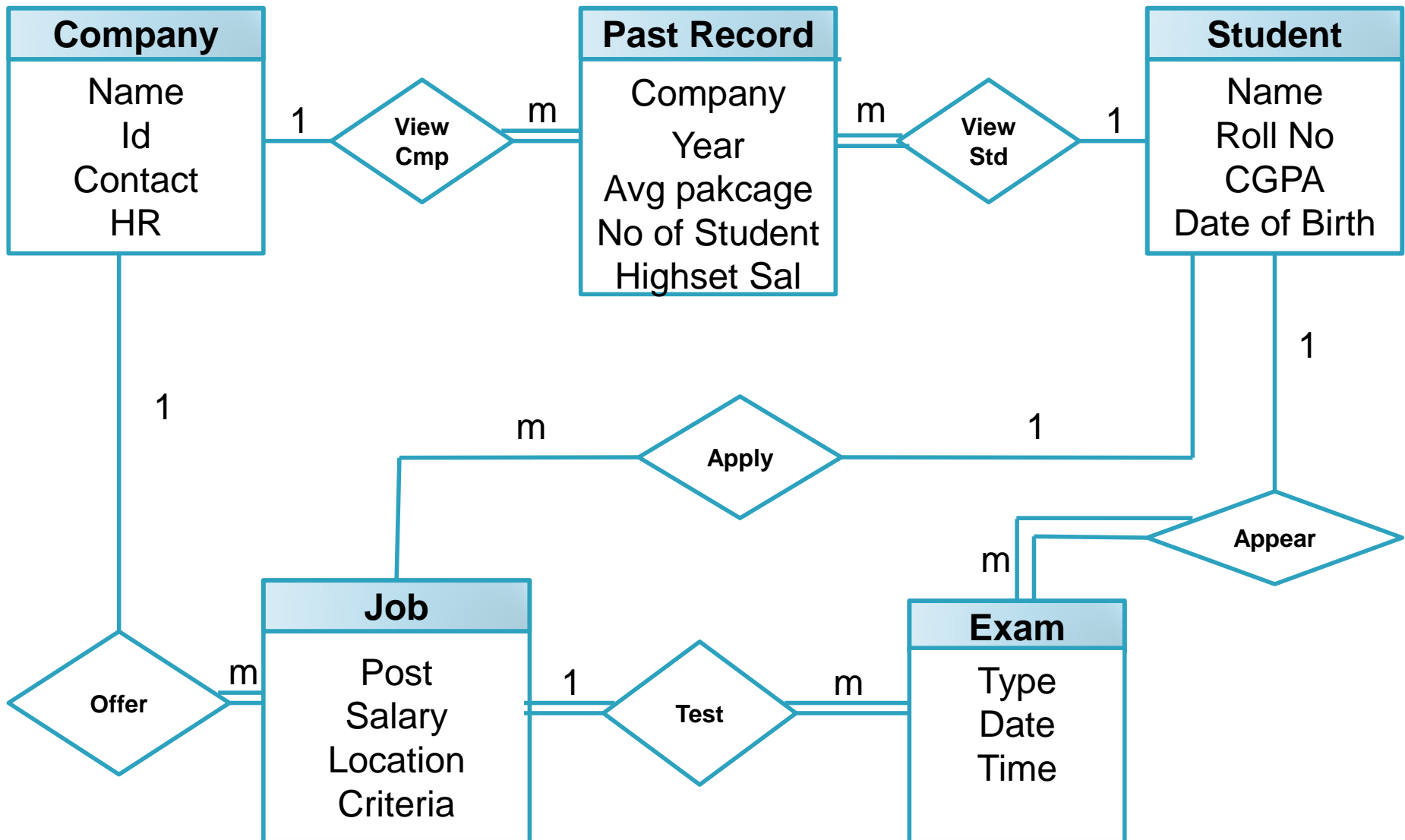
# FEATURES

- Allows students and companies to sign up. It also checks that a company will be registered only once and only students who are in final year can register.
- Companies can post jobs and corresponding exam details.
- Students can view all the job that are being offered and apply accordingly.
- At the end of placement season the past records are updated which can be viewed by all.

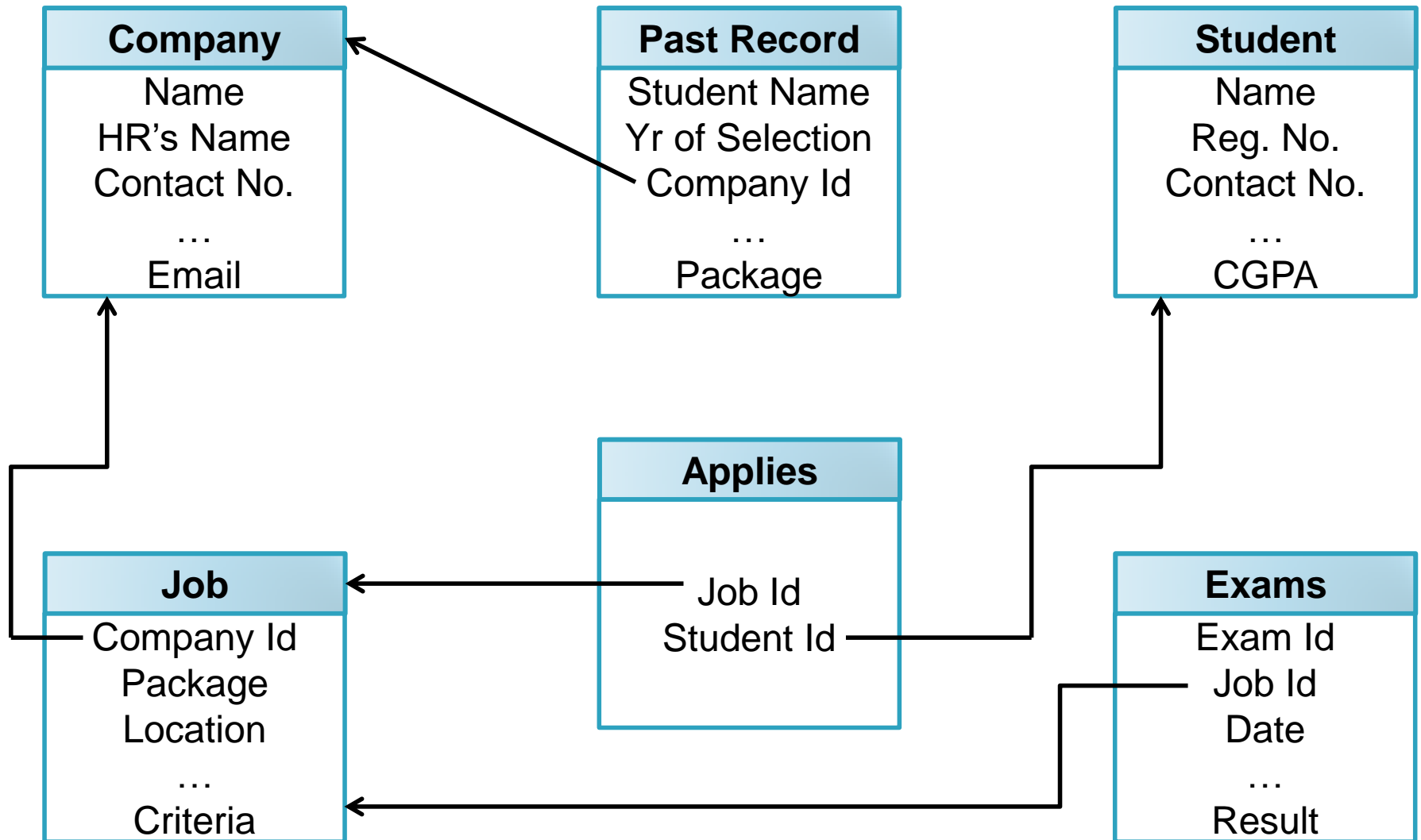
# REQUIREMENTS

- Server with Ruby on Rails and PostgreSQL to host the portal.
- Client (Students and Companies) need a browser which can process HTML5 and JavaScript.

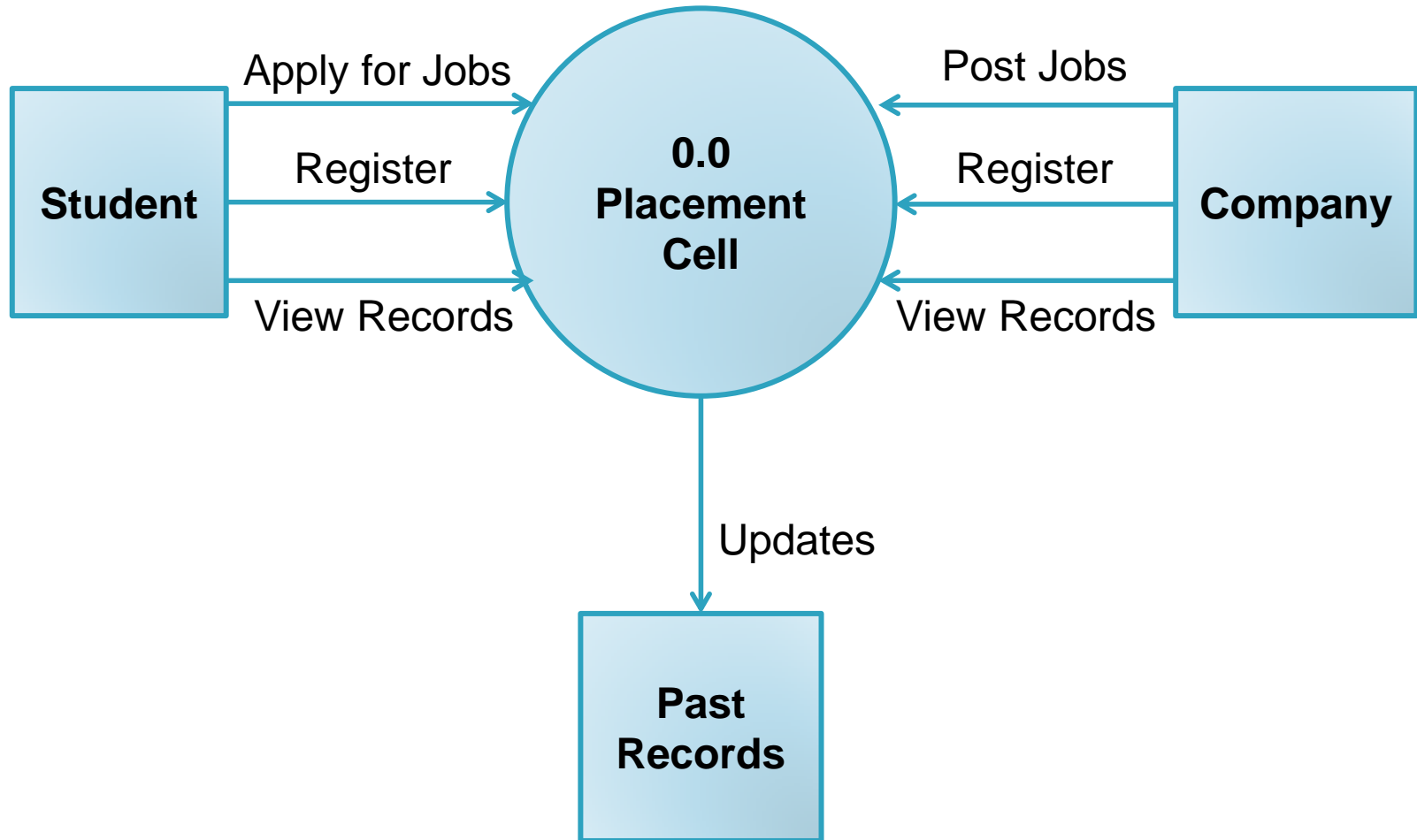
# STARTING ER DIAGRAM



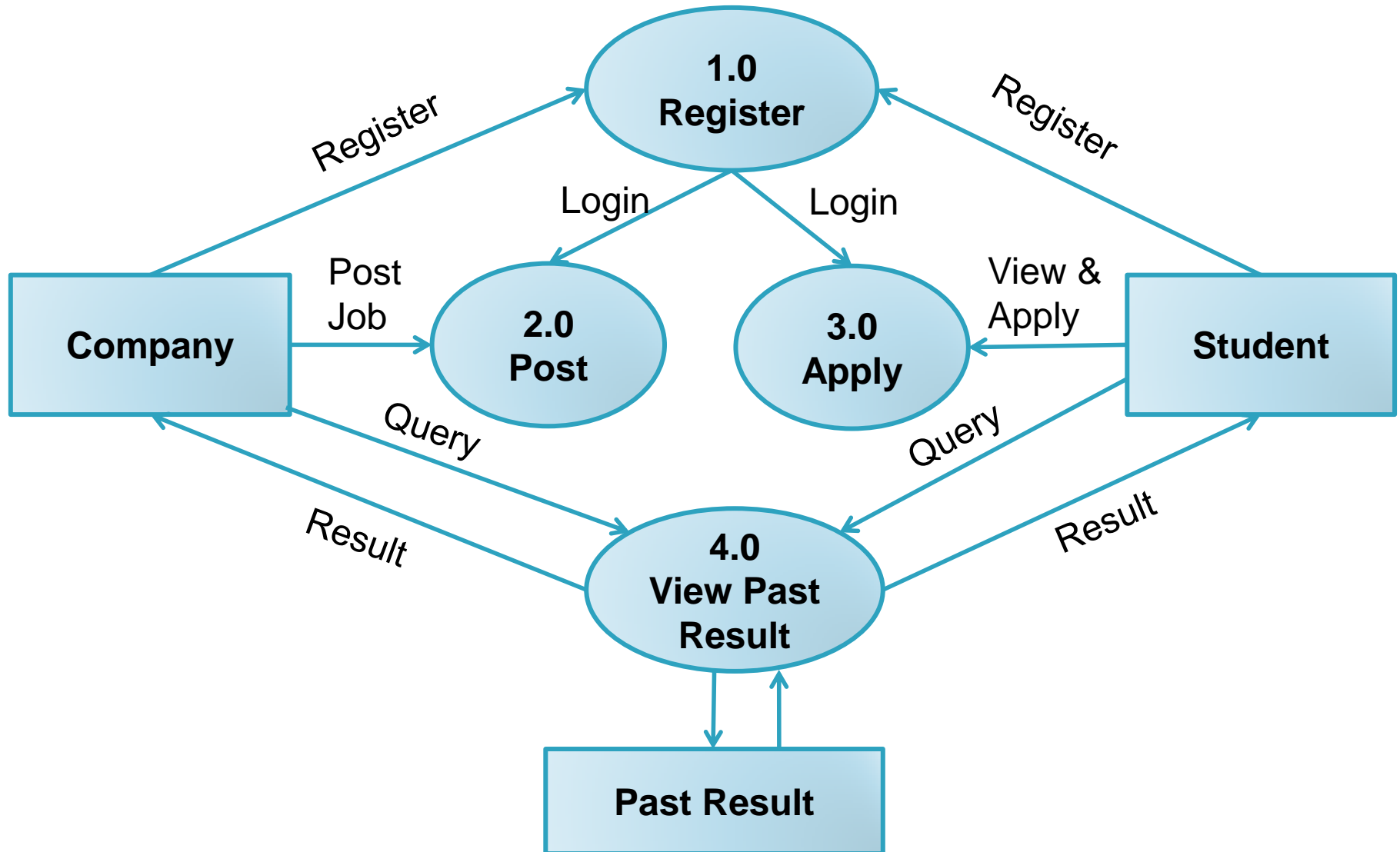
# FINAL ER DIAGRAM



# CONTEXT LEVEL DATA FLOW DIAGRAM



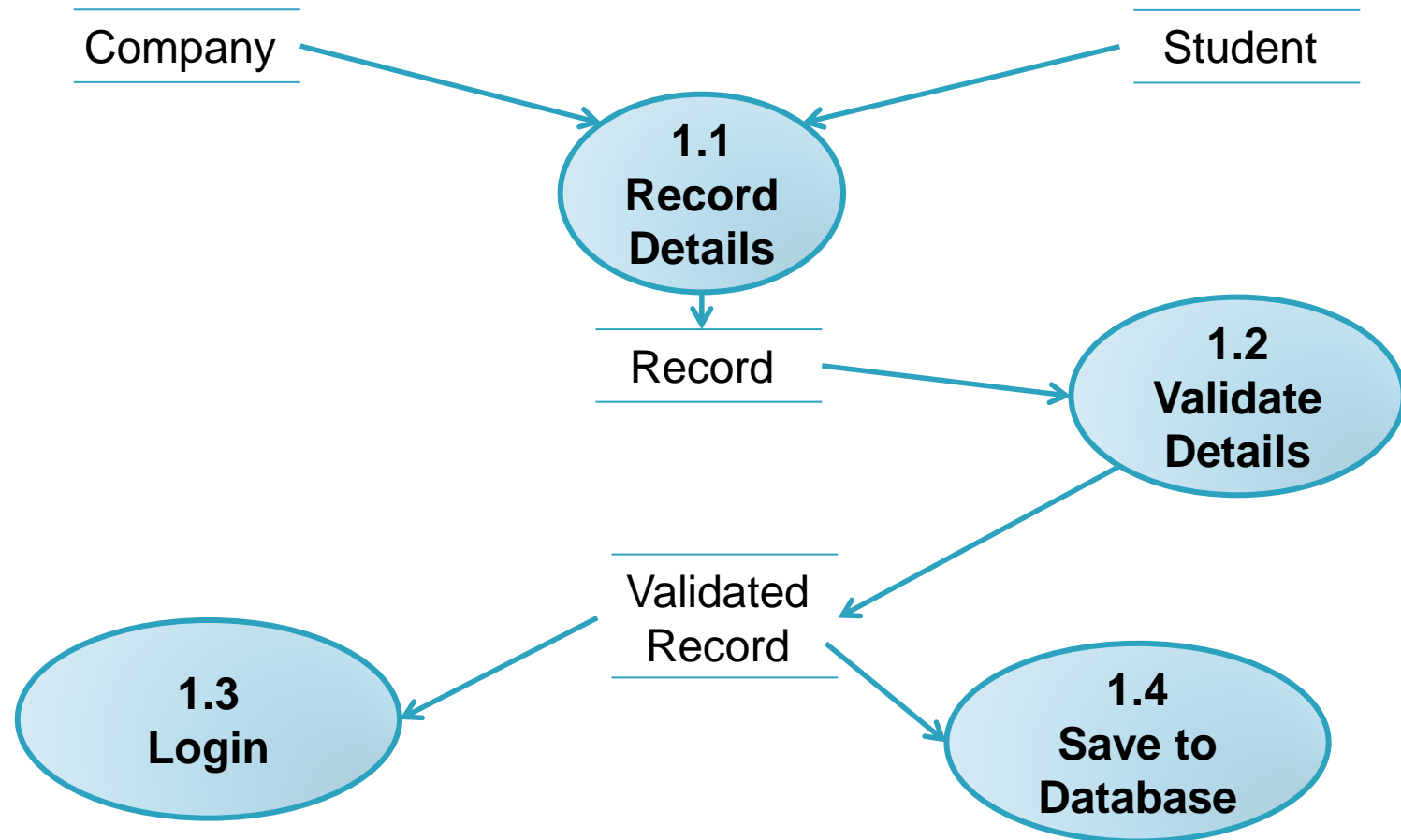
# LEVEL – 0 DATA FLOW DIAGRAM





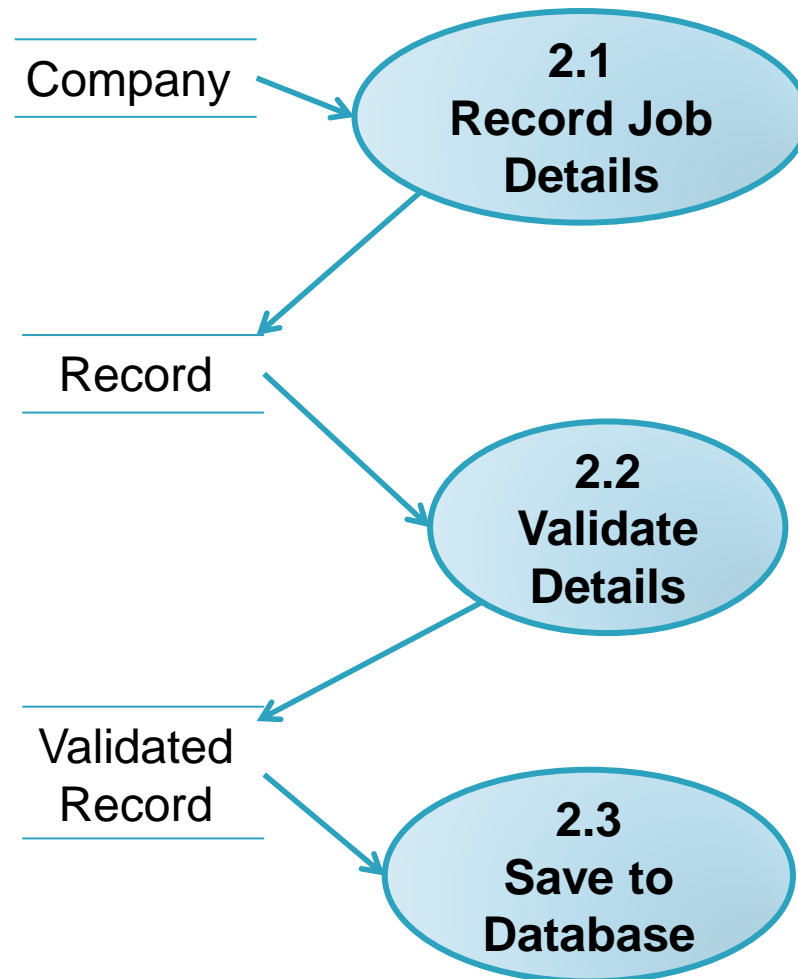
# LEVEL – 1

## DATA FLOW DIAGRAM



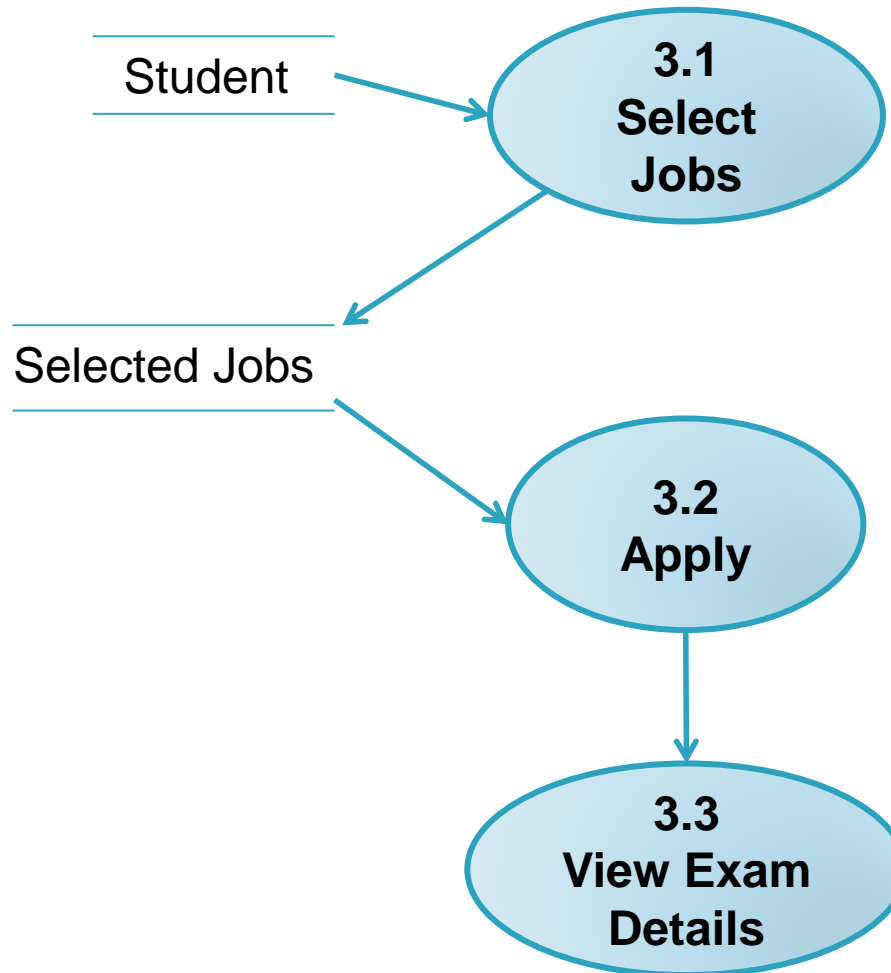
# LEVEL – 2

## DATA FLOW DIAGRAM



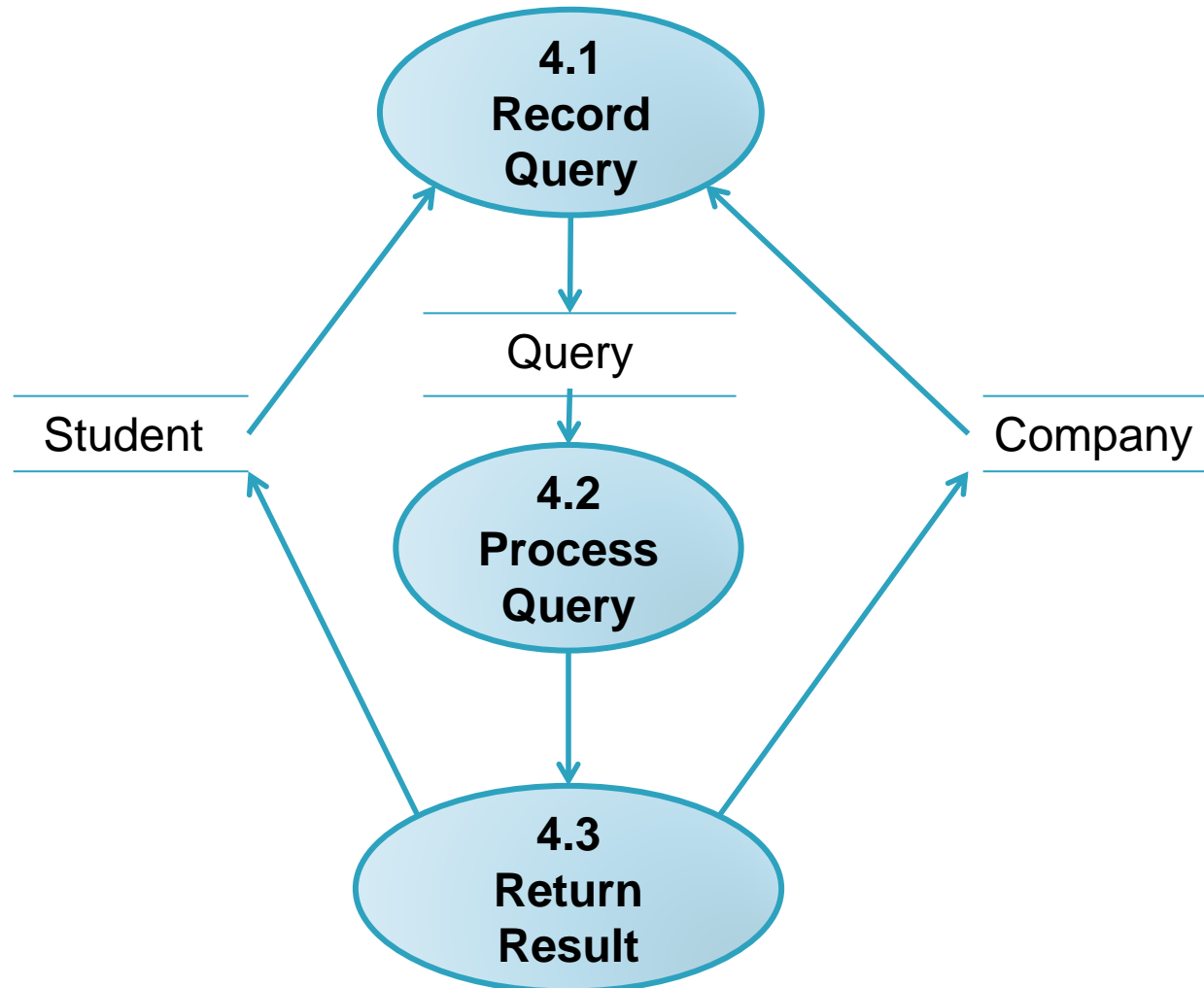
# LEVEL – 3

## DATA FLOW DIAGRAM

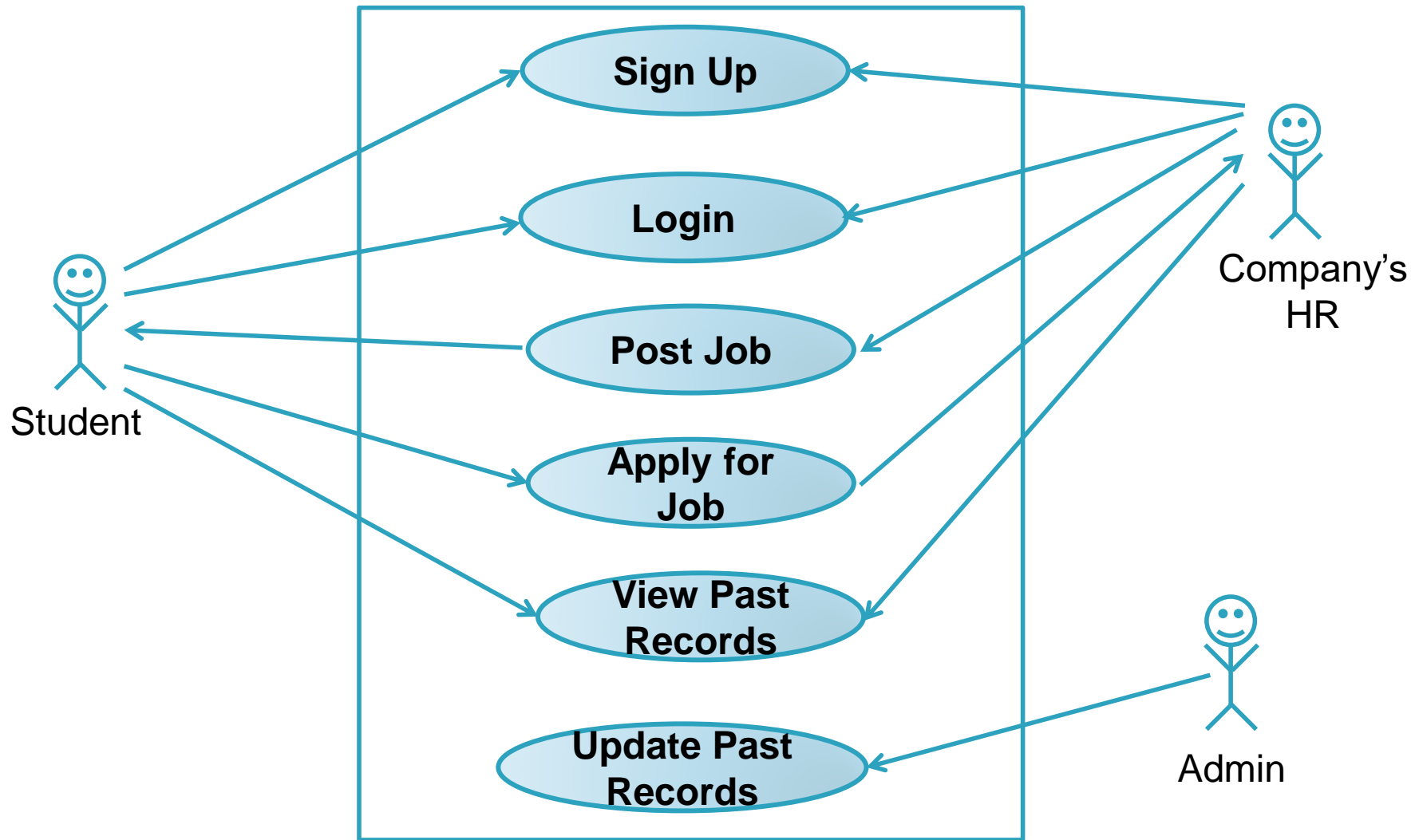


# LEVEL – 4

## DATA FLOW DIAGRAM



# USE CASE DIAGRAM



# CODE EXPLAINED

- Rails is a model–view–controller (MVC) framework, providing default structures for a database, a web service, and web pages.
- Rails emphasizes the use of other well-known software engineering patterns and paradigms, including convention over configuration (CoC), don't repeat yourself (DRY), and the active record pattern.
- Rails is a web application framework running on the Ruby programming language.

# CODE EXPLAINED

- Ruby on Rails includes tools that make common development tasks easier "out-of-the-box", such as scaffolding that can automatically construct some of the models and views needed for a basic website.
- Also included are Puma, a simple Ruby web server that is distributed with Ruby, and Rake, a build system, distributed as a gem. Together with Ruby on Rails, these tools provide a basic development environment.
- It has been used widely in the IT industry with services like Twitter, GitHub, Airbnb, Heroku, Soundcloud based on Ruby On Rails.

# CODE EXPLAINED

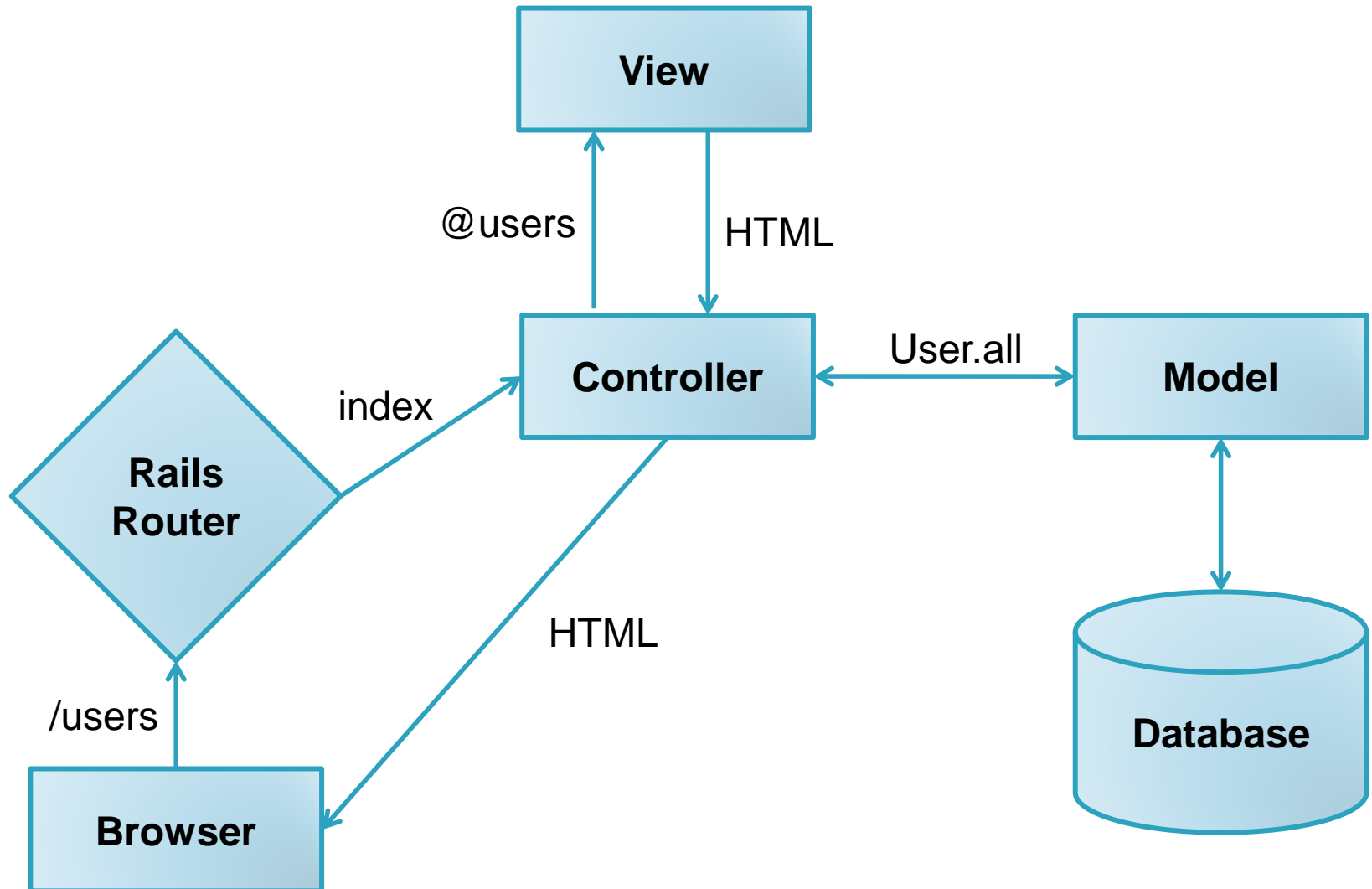
- Create Project:
  - rails new <appname>
  - (Produces the default directory structure for a Rails project)
- Run Server:
  - rails s -p 3001
  - (Starts **puma** server on localhost:3001)
- Create Database:
  - rake db:create
  - (By default it is created in sqllite3)



# CODE EXPLAINED

- Create Model
  - rails g scaffold User name:string email:string
  - (It creates a User Model with name and email )
- Migrate Schema to Database:
  - rake db:migrate
- Insert Data to Model By Console:
  - rails console
  - user = User.new
  - user.name = "Ram"
  - user.email = "example.gmail.com"

# MVC MODEL DIAGRAM



# SCREENSHOTS

## Placement Cell, IIIT-Kalyani

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### About Placement Cell

The Placement Cell at IIIT-Kalyani is a concept in its own form. It works professionally abiding the hierarchy of the placement officer followed by the placement secretary, the faculty members and finally the student representatives from each stream. The hierarchy aims at touching all the aspects required for the smooth functioning of placement body of the reputed Institution IIIT-Kalyani.

### Contact Us

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✉ [placement@iiitkalyani.ac.in](mailto:placement@iiitkalyani.ac.in)

### External Links

# SCREENSHOTS

## Company Registration

Company Name	<input type="text" value="Enter Company Name"/>
HR Name	<input type="text" value="Enter HR Name"/>
Contact Number	<input type="text" value="Enter Contact Number"/>
Company Address	<input type="text" value="Enter Address"/>
Website URL	<input type="text" value="Enter Website URL"/>
Email	<input type="text" value="Enter Email"/>
Password	<input type="text" value="Enter password"/>
	<input type="button" value="Sign up"/>

[Back](#)

# SCREENSHOTS

CompanyPage

Company Section ▾

Log out

You have successfully logged in

Companies Description

CompanyName:	HR:	ContactNumber:	Address:	Email:	Website:
infotec	Anupam Saha	7063024800	kakayani webel IT park	anupamking24@gmail.com	www.infotec.com

Jobs

CompnayName	Post Name	Package Lakhs/annum	Location	Criteria	
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JobPost

Edit

# SCREENSHOTS

## New Student

Image	<input type="button" value="Choose File"/> No file chosen
Student Name	<input type="text" value="Enter Student Name"/>
RegistrationNo	<input type="text" value="Enter RegistrationNo"/>
Date of Birth	<input type="text" value="2017"/> ▾ <input type="text" value="May"/> ▾ <input type="text" value="10"/> ▾
Stream	<input type="text" value="Enter Branch"/>
CGPA	<input type="text" value="Enter CGPA"/>
Subjects	<input type="text" value="Enter Subjects"/>
Language	<input type="text" value="Enter Languages"/>
Contact Number	<input type="text" value="Enter ContactNo"/>
Email	<input type="text" value="Enter Email"/>
Address	<input type="text" value="Enter Address"/>
Password	<input type="text" value="Enter password"/>
<input type="button" value="Create Student"/>	

# SCREENSHOTS

StudentPage

Student Section ▾

Log out

You have successfully logged in



StudentImage:	Studentname:	RegistrationNo:	Dob:	Branch:	Cgpa:	Subject:	Programming Languages:	Contact:	Email:	Address:
	shikha	10114012	1995-03-12	Information Technology	8.12	DBMS	c++, java	8101907814	shikha@gmail.com	A5 girls hostel kalyani

Edit

JobPost

ExamInfo

Name	RegistrationNo	Dob	Branch	Cgpa	Contact	Email	CompnayName	Package	Location	Critria			
shikha	10114012	1995-03-12	Information Technology	8.12	8101907814	shikha@gmail.com	Lenovo	10	Kalyani	6.8 cgpa A grade in SE A grade IN OS	Show	Edit	Destroy

New Apply

# FUTURE EXTENSIONS

- Allow company to delete a job. Currently, if a student applies for a job, company cannot delete the job.
- Adding filters, so that students can only view the job opening that they are eligible for.



**THANK YOU !!**

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