

CS347 Final Project review

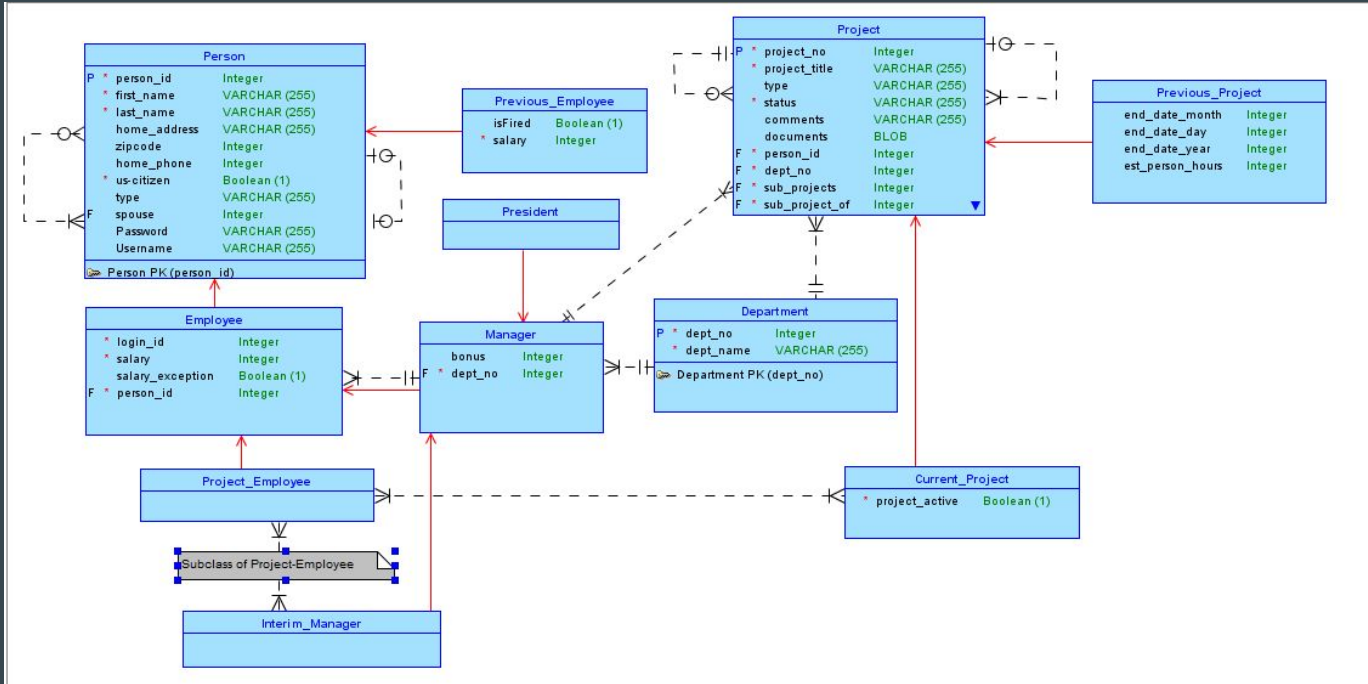
...

Rambo Wu Danyal Rizvi Kaivan Shah

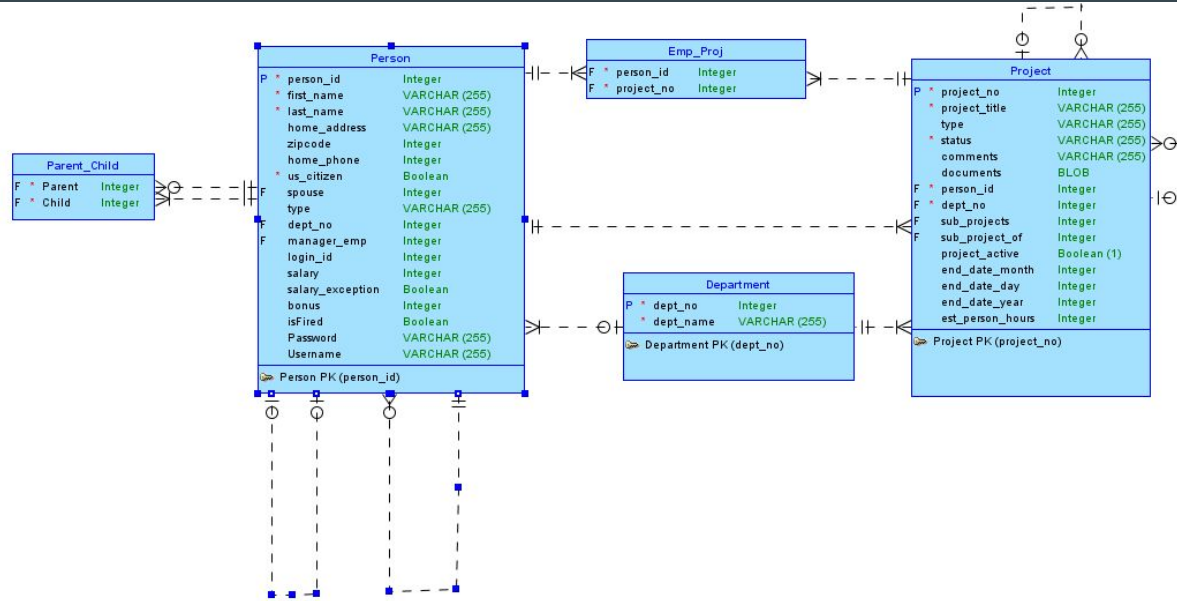
Part 1

...

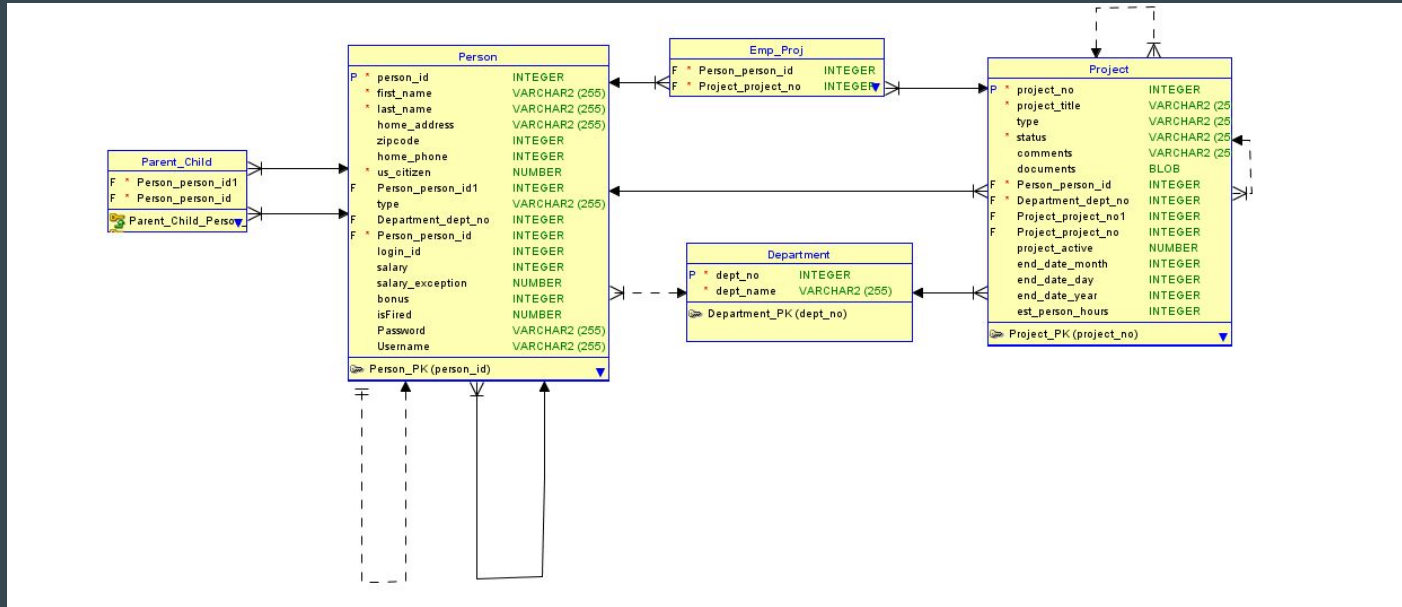
Conceptual Model



Logical Model



Relational Model



Features Implemented

- Custom login and password for each employee
- Custom navigation for different employee types
- Foreign keys replaced by list of values for forms
- Foreign keys replaced by name for reports

```
1 FUNCTION authenticate (  
2   p_username IN VARCHAR2,  
3   p_password IN VARCHAR2  
4 )  
5   RETURN BOOLEAN  
6   AS flag NUMBER;  
7 BEGIN  
8   SELECT 1  
9   INTO flag  
10  FROM person p  
11  WHERE UPPER(p.username) = UPPER(p_username) AND p.password = p_password;  
12  RETURN TRUE;  
13  EXCEPTION  
14    WHEN no data found THEN  
15    RETURN FALSE;  
16 END;
```

Login Screen

Log In

Username

jsmith

Password

Log In

≡

DRK co

Log Out

📁

Home

📁

Employees

▼

📁

Projects

▼

📁

Departments

▼

DRK co.

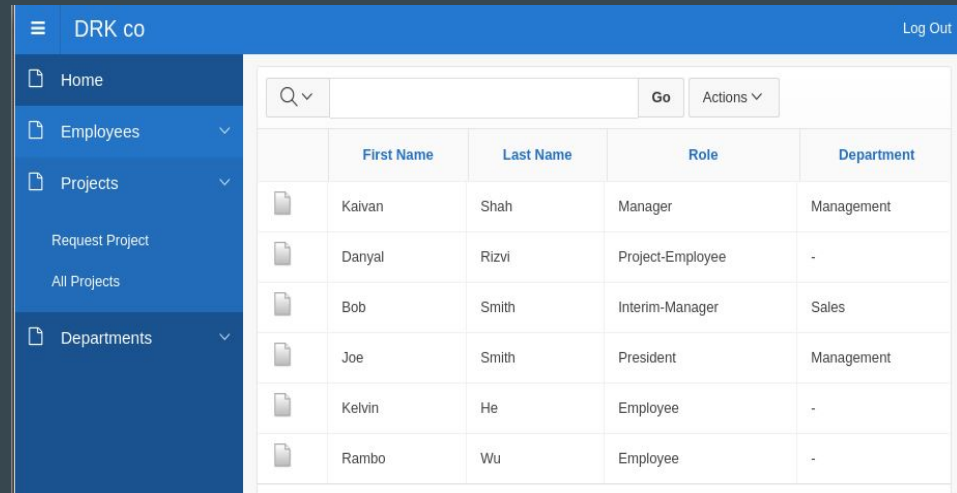
Welcome! Thank you for logging in.

release 1.0 [Set Screen Reader Mode On](#)







Employee Login

Permissions

- Create/Modify/View Parent-Child relationships
- View employee directory
- Request a project
- View all projects
- See all departments



The screenshot shows a web application interface for 'DRK co'. On the left is a blue sidebar menu with options: Home, Employees (with a dropdown arrow), Projects (with a dropdown arrow), Request Project, All Projects, and Departments (with a dropdown arrow). The main content area has a search bar with a magnifying glass icon and a dropdown arrow, followed by a 'Go' button and an 'Actions' dropdown menu. Below this is a table with columns: First Name, Last Name, Role, and Department. The table contains six rows of employee data, each with a small document icon in the first column.

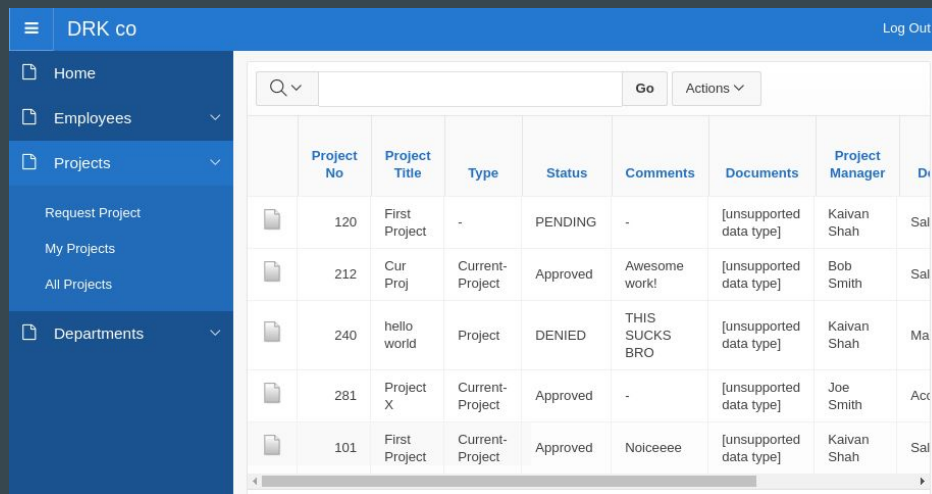
	First Name	Last Name	Role	Department
	Kaivan	Shah	Manager	Management
	Danyal	Rizvi	Project-Employee	-
	Bob	Smith	Interim-Manager	Sales
	Joe	Smith	President	Management
	Kelvin	He	Employee	-
	Rambo	Wu	Employee	-

[Apex Link](#)

Project-Employee Login

Permissions

- Create/Modify/View Parent-Child relationships
- View employee directory
- Request a project
- View projects assigned to user
- View all projects
- See all departments



The screenshot shows a web application interface for 'DRK co'. On the left is a navigation sidebar with a hamburger menu icon and the following items: Home, Employees (with a dropdown arrow), Projects (with a dropdown arrow), Request Project, My Projects, All Projects, and Departments (with a dropdown arrow). The main content area features a search bar with a magnifying glass icon and a 'Go' button, followed by an 'Actions' dropdown menu. Below this is a table with the following columns: Project No, Project Title, Type, Status, Comments, Documents, Project Manager, and an unlabeled column with a 'Di' icon. The table contains five rows of data. The first row has a document icon, Project No 120, Project Title 'First Project', Type '-', Status 'PENDING', Comments '-', Documents '[unsupported data type]', Project Manager 'Kaivan Shah', and 'Sal'. The second row has a document icon, Project No 212, Project Title 'Cur Proj', Type 'Current-Project', Status 'Approved', Comments 'Awesome work!', Documents '[unsupported data type]', Project Manager 'Bob Smith', and 'Sal'. The third row has a document icon, Project No 240, Project Title 'hello world', Type 'Project', Status 'DENIED', Comments 'THIS SUCKS BRO', Documents '[unsupported data type]', Project Manager 'Kaivan Shah', and 'Ma'. The fourth row has a document icon, Project No 281, Project Title 'Project X', Type 'Current-Project', Status 'Approved', Comments '-', Documents '[unsupported data type]', Project Manager 'Joe Smith', and 'Act'. The fifth row has a document icon, Project No 101, Project Title 'First Project', Type 'Current-Project', Status 'Approved', Comments 'Noiceeee', Documents '[unsupported data type]', Project Manager 'Kaivan Shah', and 'Sal'.

	Project No	Project Title	Type	Status	Comments	Documents	Project Manager	Di
	120	First Project	-	PENDING	-	[unsupported data type]	Kaivan Shah	Sal
	212	Cur Proj	Current-Project	Approved	Awesome work!	[unsupported data type]	Bob Smith	Sal
	240	hello world	Project	DENIED	THIS SUCKS BRO	[unsupported data type]	Kaivan Shah	Ma
	281	Project X	Current-Project	Approved	-	[unsupported data type]	Joe Smith	Act
	101	First Project	Current-Project	Approved	Noiceeee	[unsupported data type]	Kaivan Shah	Sal

[Apex Link](#)

Interim-Manager Login

Permissions

- Create/Modify/View Parent-Child relationships
- View employee directory
- View employee's managed by user
- Request a project
- View projects assigned to & managed by user
- View all projects
- Assign employee to project
- See all departments

The screenshot displays the Interim-Manager Login interface. On the left is a blue sidebar with a menu: Home, Employees (selected), Relationships, Directory, Team, Projects, and Departments. The main content area has a top bar with 'DRK co' and a 'Log Out' link. Below this is a search bar with a magnifying glass icon, a 'Go' button, and an 'Actions' dropdown. A table lists employee data with columns: Zipcode, Home Phone, Type, Name, and Dept Name. The table contains one row for Kelvin He. Below the table is a pagination bar showing '1 - 1'. An 'Employee Detail' modal is open, showing a table with columns: Name, Home Address, Type, Zipcode, Home Phone, Manager Name, Dept Name, and Person Id. The table contains one row for Kelvin He.

Zipcode	Home Phone	Type	Name	Dept Name
77478	2134567089	Employee	Kelvin He	-

Name	Home Address	Type	Zipcode	Home Phone	Manager Name	Dept Name	Person Id
Kelvin He		Employee	77478	2134567089	Bob Smith		223

[Apex Link](#)

Manager Login


Permissions

- Create/Modify/View Parent-Child relationships
- Manage employee directory & hire/fire employee
- View employee's managed by user
- Request a project
- View projects assigned to & managed by user
- Approve/Manage all projects
- Assign employee to project
- See all departments

[Apex Link](#)

kshah

The screenshot displays the DRK co Manager Login interface. The top navigation bar is blue with the company name 'DRK co' and a 'Log Out' link. The left sidebar contains a navigation menu with the following items: Home, Employees (with a dropdown arrow), Relationships (with a dropdown arrow), Actions (with a dropdown arrow), Hire Employee, Directory (with a dropdown arrow), Team, Projects (with a dropdown arrow), and Departments (with a dropdown arrow). The main content area features a search bar with a magnifying glass icon, a 'Go' button, and an 'Actions' dropdown. Below the search bar, there is a table with the following data:

Project title	
	First Project

At the bottom right of the main content area, there is a '1 - 1' indicator. Below the main content area, there is a 'My Project Details' modal window. The modal has a title bar with a close button. The content of the modal is as follows:

My Project Details

Project No	Project Title	Type	Status	Comments	Documents	Person Id	Dept No	Sub Projects	Sul Proj Of
101	First Project	Current-Project	Approved	Noiceeee	[datatype]	30	2	212	240

President Login

Permissions

- Create/Modify/View Parent-Child relationships
- Manage employee directory & hire/fire employee
- View employee's managed by user
- Request a project
- View projects assigned to & managed by user
- Approve/Manage all projects
- Assign employee to project
- See/Create all departments

The screenshot displays the 'DRK co' system interface. On the left is a navigation menu with options: Home, Employees, Projects, and Department. The 'Projects' menu is expanded, showing sub-options: Create Project, My Projects, Manage Project, Assign Employee, and Managing Project. The main content area shows a table of projects with columns: Project No, Project Title, Type, Status, Comments, Documents, Project Active, and End Date. A table row is visible with Project No 101, Project Title First Project, Type Current-Project, Status Approved, Comments Noiceeee, Documents [unsupported data type], Project Active 1, and End Date Mont. An 'Edit Project' modal window is open in the foreground, containing the following fields: Project Title (First Project), Type (Current-Project), Status (Approved), Comments (Noiceeee), Documents (Choose File, Project.zip), Person Id (Kaivan Shah), Department (Sales), Sub Projects (Cur Proj), and Sub Project Of (hello world).

Project No	Project Title	Type	Status	Comments	Documents	Project Active	End Date
101	First Project	Current-Project	Approved	Noiceeee	[unsupported data type]	1	Mont

Edit Project

Project Title * First Project

Type Current-Project

Status * Approved

Comments Noiceeee

Documents Choose File Project.zip

Person Id * Kaivan Shah

Department * Sales

Sub Projects Cur Proj

Sub Project Of hello world

[Apex Link](#)

Part 2

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Conceptual Model

Differences between relational vs SIM database