

# Project Matching App

Team 3Σ

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## **A brief Description**

Our app matches employees of an organization with new positions. It will help give employees a voice in what projects they work on and will allow management to select those with a genuine desire to contribute.

# **User Personas**

(applicants & managers)



## Patrick Spiegelmann - Applicant

Patrick is a 27 years old web developer who has worked at “University 2.0” for 2 years. Although he keeps his head down and works hard he doesn’t like the project to which he was allocated. The current project is now coming to an end and it is time to move forward with his career. He has worked hard in his **free time** to develop specific expertise in django and python but is worried that human resources will misallocate him.

Patrick would love to avoid human resources and find a position that interests him quickly. If he could apply for positions that would be even better.



## **Abraham Akhbar - Project Manager**

A 46 years old for this company for 8 years. He enjoys his homelife, his wife and kids and his classic car: a 1969 Pontiac GTO. But as University 2.0 has expanded he finds himself swamped with more projects to manage and less time for the things he loves. He currently uses excel to manage hundreds of projects - he hates it.

Every time he has to manage a new project, he has to spend a lot of time putting together the right team. He thinks python is a type of snake and Django is a movie. He sees these passionate developers who know more about the technology than he does and thinks “Wouldn’t it be easier if they came to me?”.

Abraham needs a way to quickly gather applicants, review applications and make decisions.

# Goals

- Allow users to browse and search projects
- Allow users to register / login
- Allow users to apply for positions within projects
- Allow PMs to approve applications
- Allow PMs to create projects & positions
- Users are notified when applications are accepted via e-mail

# Desktop Wireframes

Home



http://projects.com

Logo

username

password

[Log In / Register](#)

## Find Projects based on your interests

Web development, Django, Python, Javascript





Logo

[Log In / Register](#)

## Find Projects based on your interests

### Senior Web Developer

Project: [University Intranet](#) | HTML, CSS, **Python**, JS, **Django** Framework

Be responsible for a new responsive design with innovative use of **javascript** and an emphasis on usability

### Web Designer

Project: [University Intranet](#) | Skills: Photoshop, Illustrator, wireframes, mockups, Javascript, **HTML**, **CSS**

Help make our intranet website look fancy!

### Web Architect

Project: [Payroll Management software](#) | Skills: java, javabeans, eclipse, android, Java RMI

Develop the backup infrastructure for our **web** based payroll management system





Logo

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Home > University Intranet > Web Developer

## Senior Web Developer

Project [University Intranet](#) | HTML, CSS, Python, JS, Django Framework

Be responsible for a new responsive design with innovative use of javascript and an emphasis on usability

We are looking for a Python/Django developer who can help with further development and maintenance of the University intranet. The role will be situated in 101st floor of the Sir Allan Ownage building.

The role also offers ongoing opportunities to gain IT security related skills through frequent interaction with the security consultants as rival "university" Ub3r3rsity 8.1 are constantly trying to hack us.

[Apply Now](#)



Logo

[Log In / Register](#)

Home &gt; University Intranet

## University Intranet

We are building a University intranet to help students and teachers communicate. This system replaces Scroodle, the previous intranet / learning management system with one built in-house. This ensures continued success for University 2.0.

### The team



**Project Manager**  
Abraham Akhbar



**Lead Designer**  
Bung Hoolio



**Lead Programmer**  
Fritz Shamnhaffer



**Sr Web Developer**  
[Apply / View](#)



**Database Designer**  
[Apply / View](#)

(...)

# End of Desktop Wireframe

## Result

The user has found a suitable position within a suitable project through our systems recommendation and subsequent ad-hoc browsing.

Our system invites **non-registered** users to search and explore. We only ask them to register just before they click to apply for a position. This exploits a phenomenon known as “sunk costs”.

# A mobile perspective



- Responsive Design
- Users can continue their sessions
- Work across devices

# **Standout Functionality**

Real time search functionality

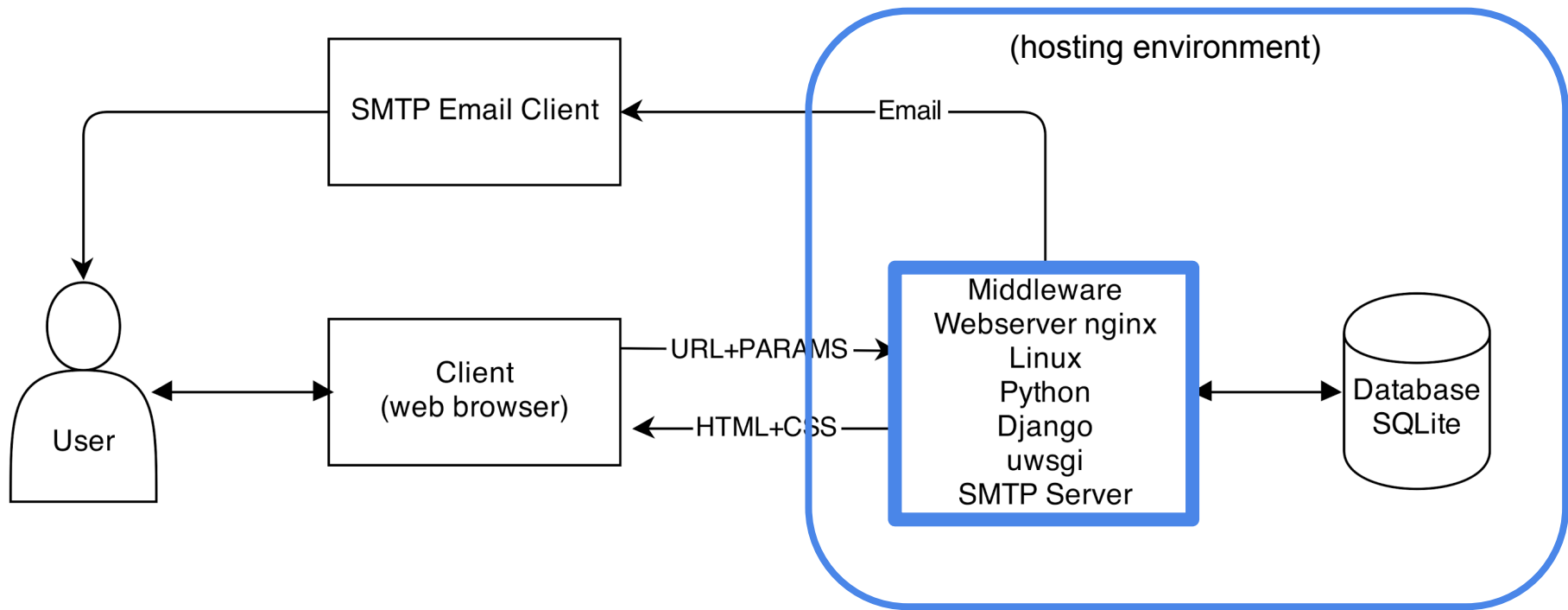
“Apply for position” button powered by AJAX

Multiple user roles and views

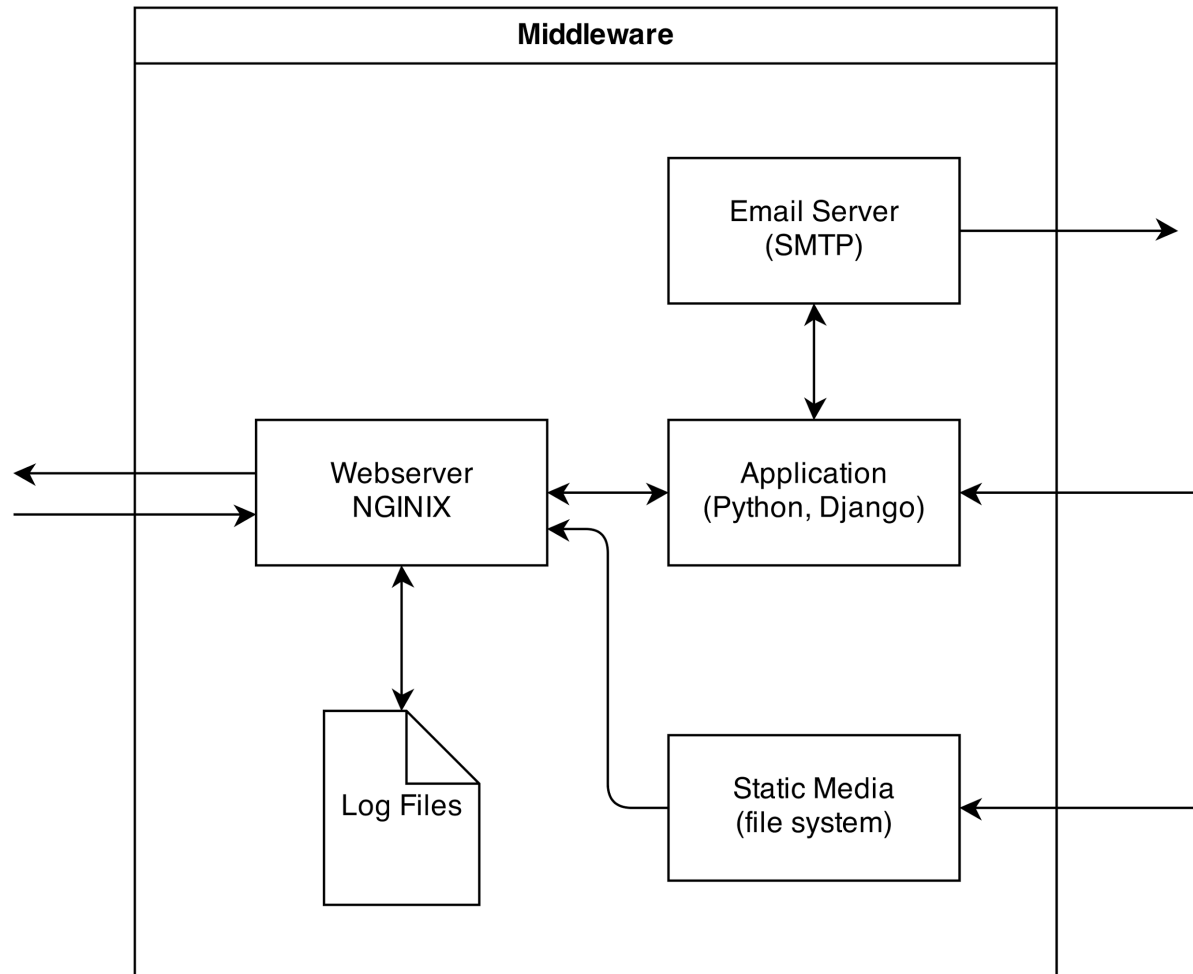
Email notification (SMTP)

Responsive Design for mobile devices

# System Architecture: Overview

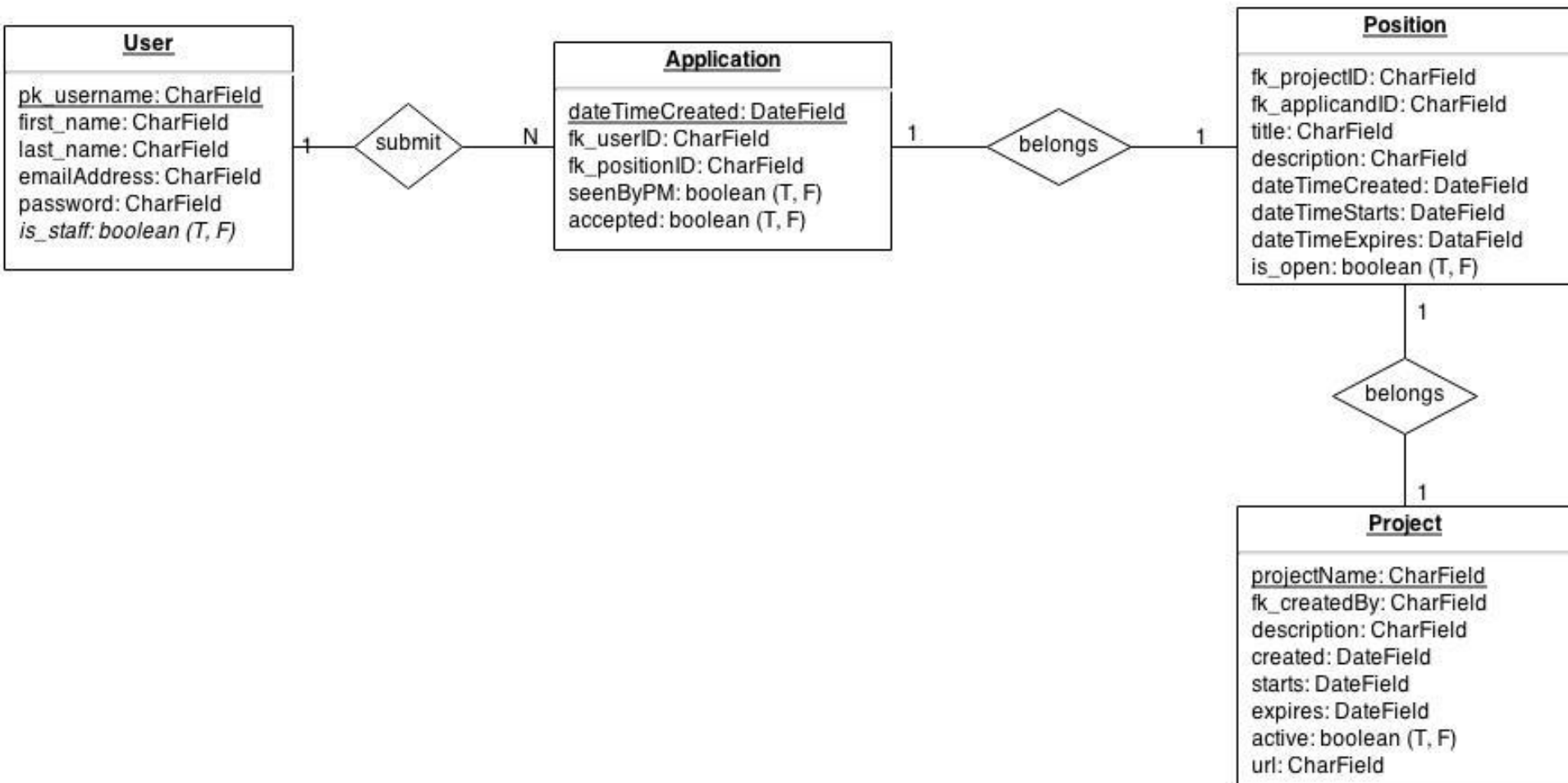


# System Architecture: Middleware





# ER Diagram



# Questions?

# Prioritize the requirements (MoSCoW)

## MUST

- User must be able to browse through a list of projects & project positions
- User must be able to view project details (i.e. project title, project description, start-end date)
- Users must be able to apply for one or more position/s
- PMs must be able to create new projects and positions within projects
- PMs must be able to accept applications

## SHOULD

- The system should allocate applicants to projects when their application was accepted
- The system should send e-mail notifications to successful applicants

# Prioritize the requirements (MoSCoW)

## COULD

- Applicants could see project details like the number of members required
- Applicants could see the number of members that are already part of the project
- Users could be able to view allocations in upcoming projects
- The system could allow contracted staff to be brought in

## WON'T

- have a native mobile application
- expose personal information/profile
- provide an API
- provide project management features
- provide advanced search functionality
- provide tournament selection for applicants
- have advanced AJAX functionality
- support uploading CV for applicant

# User needs matrix

	Applicant	Project Manager
Receive email updates	✓	
View projects	✓	✓
View project details	✓	✓
View other applicants	✓	
Search for Projects	✓	
Browse Projects	✓	✓
Can apply to positions	✓	✓

# URLs & Sitemap

**RED** = Pages only accessible to project managers

Note: Some of our urls will exist only to provide AJAX handling functionality via url parameters or for admin/testing purposes, these include:

- /admin
- /restricted
- /logout

# Front End URLs

/index (homepage + search)

- /register
- /login
- /projects (the projects filtering interface)
  - /projects/project-name
  - /projects/add-project
  - /projects/add-position
- /applist
- /pm-projects
- /history



# Site Map

