

IMS CONNECT DOCUMENTATION

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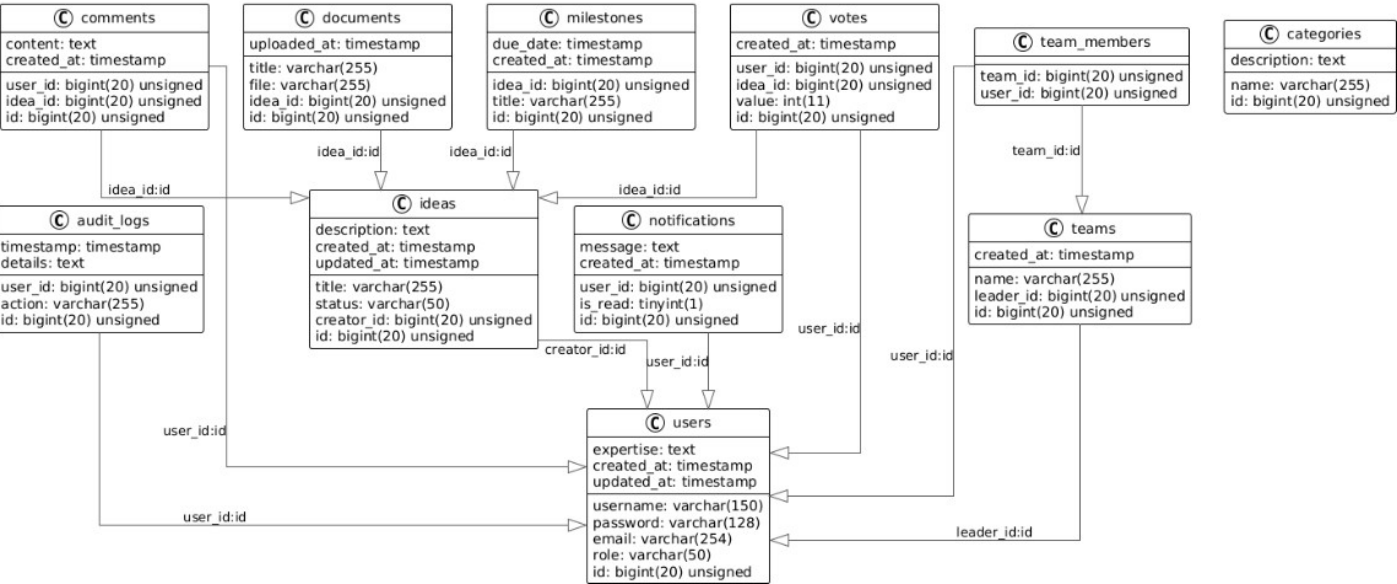
Introduction

The **ims-connect-django-react** project is designed to provide a robust platform for collaboration and idea management. By integrating a Django backend with a React frontend, this application enables users to engage in the creation, voting, and discussion of ideas in a streamlined manner. The primary goal is to enhance productivity within teams by facilitating effective communication and decision-making processes.

This documentation serves as a comprehensive guide for developers and users alike, detailing the installation, configuration, and usage of the application. It covers key features, API endpoints, and provides insights into the underlying architecture, making it easier for new contributors to understand and participate in the project. Whether you are looking to set up the application locally, integrate it into your workflow, or contribute to its development, this documentation aims to provide all the necessary information to get started.

Project Overview

The **ims-connect-django-bootstrap** project is a web application that combines a Django backend with a bootstrap frontend. It aims to facilitate collaboration and idea management among users, allowing them to create, vote on, and discuss ideas. The application is designed to enhance productivity and streamline the workflow of teams by providing a platform for idea generation and evaluation.



Key Features

- User authentication and authorization using JWT.
- CRUD operations for ideas, votes, comments, documents, teams, notifications, milestones, categories, and audit logs.
- Real-time notifications for user interactions.
- Search functionality for ideas and users.
- Role-based access control for different user types.

Installation Instructions

To set up the backend locally, follow these steps:

1. Clone the repository:

```
git clone https://github.com/yourusername/ims-connect-django-react.git
cd ims-connect-django-bootstrap/backend
```

2. Create a virtual environment and activate it:

```
python3 -m venv venv
source venv/bin/activate
```

3. Install the required packages:

```
pip install -r requirements.txt
```

4. Set up the database (make sure MySQL is running):

```
python manage.py migrate
```

5. Create a superuser to access the admin panel:

```
python manage.py createsuperuser
```

6. Run the development server:

```
python manage.py runserver
```

Troubleshooting

- If you encounter issues with database connections, ensure that your MySQL server is running and that the credentials in your `.env` file are correct.
- If you face any package installation errors, ensure that you have the correct version of Python and pip installed.

Configuration

Key settings from `settings.py`:

- **SECRET_KEY**: Managed through environment variables for security. This key is used for cryptographic signing and should be kept secret in production.
- **DEBUG**: Set to `True` for development. In production, this should be set to `False` to prevent sensitive information from being exposed.
- **ALLOWED_HOSTS**: Currently set to allow all hosts (`'*'`). This should be updated to include specific domains in production.
- **CORS_ALLOWED_ORIGINS**: Configured to allow requests from specific local development addresses. This is important for enabling cross-origin requests from the frontend.
- **DATABASES**: Uses MySQL as the database backend. Ensure that the database is created and the credentials are correct.

Example `settings.py` snippet

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'rest_framework',  
    'rest_framework_simplejwt', 'corsheaders',  
    'users',  
    'ideas',  
    'votes',  
    'teams', 'documents',  
    'comments',  
    'notifications',  
    'milestones',  
    'categories',  
    'audit_logs',  
]
```

```

MIDDLEWARE = [
    'corsheaders.middleware.CorsMiddleware',
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'backend.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    },
]

WSGI_APPLICATION = 'backend.wsgi.application'

# Database
# https://docs.djangoproject.com/en/3.2/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': os.environ.get('DB_NAME'),
        'USER': os.environ.get('DB_USER'),
        'PASSWORD': os.environ.get('DB_PASSWORD'),
        'HOST': os.environ.get('DB_HOST'),
        'PORT': os.environ.get('DB_PORT'),
    }
}

```

API Endpoints

User Endpoints

- **GET /users/**: List all users.

- **Response:** A JSON array of user objects. This endpoint retrieves all registered users in the system, allowing for administrative oversight and user management.
- **Example:**

```
[  
  {"id": 1, "username": "john_doe", "email": "john@example.com"},  
  {"id": 2, "username": "jane_doe", "email": "jane@example.com"}  
]
```

- ♦ **POST /users/:** Create a new user.
 - **Request Body:** JSON object with user details (username, password, etc.). This endpoint allows for the registration of new users into the system, facilitating user growth and engagement.
 - **Example:**

```
{"username": "new_user", "password": "securepassword"}
```

- **Response:** The created user object, confirming successful registration.

Example `views.py` snippet for `UserViewSet`

```
class UserViewSet(viewsets.ModelViewSet):  
    queryset = User.objects.all()  
    serializer_class = UserSerializer  
  
    def create(self, request):  
        serializer = self.serializer_class(data=request.data)  
        if serializer.is_valid():  
            serializer.save()  
            return Response(serializer.data, status=status.HTTP_201_CREATED)  
        return Response(serializer.errors,  
            status=status.HTTP_400_BAD_REQUEST)
```

Idea Endpoints

- ♦ **GET /ideas/:** List all ideas.

- **Response:** A JSON array of idea objects. This endpoint provides a comprehensive view of all ideas submitted by users, facilitating idea management and evaluation.
- **Example:**

```
[
  {"id": 1, "title": "Idea 1", "description": "Description of Idea 1"},
  {"id": 2, "title": "Idea 2", "description": "Description of Idea 2"}
]
```

- ♦ **POST /ideas/:** Create a new idea.

- **Request Body:** JSON object with idea details (title, description, etc.). This endpoint allows users to submit new ideas to the platform, fostering creativity and collaboration.
- **Example:**

```
{"title": "New Idea", "description": "This is a new idea."}
```

- **Response:** The created idea object, confirming successful submission.

Example `models.py` snippet for Idea model

```
from django.db import models

class Idea(models.Model):
    title = models.CharField(max_length=255)
    description = models.TextField()
    status = models.CharField(max_length=50, choices=[('draft', 'Draft'), ('submitted', 'Submitted'), ('approved', 'Approved')])
    creator = models.ForeignKey(User, on_delete=models.CASCADE)
    created_at = models.DateTimeField(auto_now_add=True)
    updated_at = models.DateTimeField(auto_now=True)
```

Vote Endpoints

- **GET /votes/**: List all votes.

- **Response**: A JSON array of vote objects. This endpoint allows users to view all votes cast on ideas, providing transparency in the voting process.
- **Example**:

```
[  
  {"id": 1, "user_id": 1, "idea_id": 1, "value": 1},  
  {"id": 2, "user_id": 2, "idea_id": 1, "value": -1}  
]
```

- **POST /votes/**: Create a new vote.

- **Request Body**: JSON object with vote details (user ID, idea ID, etc.). This endpoint allows users to cast their votes on ideas, influencing the decision-making process.
- **Example**:

```
{"user_id": 1, "idea_id": 1, "value": 1}
```

- **Response**: The created vote object, confirming successful voting.

Example **serializers.py** snippet for VoteSerializer

```
class VoteSerializer(serializers.ModelSerializer):  
    class Meta:  
        model = Vote  
        fields = ['id', 'user_id', 'idea_id', 'value']
```

Team Endpoints

- **GET /teams/**: List all teams.

- **Response**: A JSON array of team objects. This endpoint provides an overview of all teams within the application, facilitating team management

and collaboration.

- **Example:**

```
[
  {"id": 1, "name": "Team Alpha"},
  {"id": 2, "name": "Team Beta"}
]
```

- ♦ **POST /teams/:** Create a new team.

- **Request Body:** JSON object with team details (name, leader ID, etc.). This endpoint allows users to form new teams, promoting collaboration on ideas. **Example:**

```
{"name": "New Team", "leader_id": 1}
```

- **Response:** The created team object, confirming successful team formation.

Document Endpoints

- ♦ **GET /documents/:** List all documents.

- **Response:** A JSON array of document objects. This endpoint allows users to view all documents related to ideas, facilitating document management.
- **Example:**

```
[
  {"id": 1, "title": "Document 1", "file": "url_to_file"},
  {"id": 2, "title": "Document 2", "file": "url_to_file"}
]
```

- ♦ **POST /documents/:** Create a new document.

- **Request Body:** JSON object with document details (title, file, etc.). This endpoint allows users to upload new documents associated with their ideas.
- **Example:**

```
{"title": "New Document", "file": "url_to_file"}
```

- **Response:** The created document object, confirming successful upload.

Comment Endpoints

- ♦ **GET /comments/:** List all comments.
 - **Response:** A JSON array of comment objects. This endpoint allows users to view all comments made on ideas, fostering discussion and feedback.
 - **Example:**

```
[  
  {"id": 1, "user_id": 1, "idea_id": 1, "content": "Great idea!"},  
  {"id": 2, "user_id": 2, "idea_id": 1, "content": "I agree!"}  
]
```

- ♦ **POST /comments/:** Create a new comment.
 - **Request Body:** JSON object with comment details (user ID, idea ID, content, etc.). This endpoint allows users to provide feedback on ideas through comments.
 - **Example:**

```
{"user_id": 1, "idea_id": 1, "content": "This is a comment."}
```

- **Response:** The created comment object, confirming successful posting.

Notification Endpoints

- ♦ **GET /notifications/:** List all notifications.
 - **Response:** A JSON array of notification objects. This endpoint allows users to view all notifications related to their activities within the application.
 - **Example:**

```
[
  {"id": 1, "user_id": 1, "message": "You have a new comment.",
  "created_at": "2024-12-21T22:02:00Z"},
  {"id": 2, "user_id": 2, "message": "Your idea was approved.",
  "created_at": "2024-12-21T22:03:00Z"}
]
```

- ♦ **POST /notifications/**: Create a new notification.
 - **Request Body**: JSON object with notification details (user ID, message, etc.). This endpoint allows the system to send notifications to users about various activities.
 - **Example**:

```
{"user_id": 1, "message": "New vote on your idea."}
```

- **Response**: The created notification object, confirming successful notification.

Milestone Endpoints

- ♦ **GET /milestones/**: List all milestones.
 - **Response**: A JSON array of milestone objects. This endpoint allows users to view all milestones associated with ideas, providing transparency in project timelines.
 - **Example**:

```
[
  {"id": 1, "idea_id": 1, "title": "Milestone 1", "due_date": "2024-12-31T00:00:00Z"},
  {"id": 2, "idea_id": 2, "title": "Milestone 2", "due_date": "2024-12-31T00:00:00Z"}
]
```

- ♦ **POST /milestones/**: Create a new milestone.
 - **Request Body**: JSON object with milestone details (idea ID, title, due date, etc.). This endpoint allows users to set milestones for their ideas, helping to track progress.

- **Example:**

```
{"idea_id": 1, "title": "New Milestone", "due_date": "2024-12-31T00:00:00Z"}
```

- **Response:** The created milestone object, confirming successful milestone creation.

Category Endpoints

- ♦ **GET /categories/:** List all categories.

- **Response:** A JSON array of category objects. This endpoint allows users to view all categories available for organizing ideas.
- **Example:**

```
[  
  {"id": 1, "name": "Category 1"},  
  {"id": 2, "name": "Category 2"}  
]
```

- ♦ **POST /categories/:** Create a new category.

- **Request Body:** JSON object with category details (name, description, etc.). This endpoint allows users to define new categories for better organization of ideas.
- **Example:**

```
{"name": "New Category", "description": "Description of new category."}
```

- **Response:** The created category object, confirming successful category creation.

Audit Log Endpoints

- ♦ **GET /audit-logs/:** List all audit logs.

- **Response:** A JSON array of audit log objects. This endpoint provides a record of all significant actions taken within the application, ensuring accountability and traceability.
- **Example:**

```
[
  {"id": 1, "user_id": 1, "action": "created idea", "timestamp":
  "2024-12-21T22:00:00Z"},
  {"id": 2, "user_id": 2, "action": "voted", "timestamp": "2024-12-
  21T22:01:00Z"}
]
```

- ♦ **POST /audit-logs/:** Create a new audit log.

- **Request Body:** JSON object with log details (user ID, action, etc.). This endpoint allows the system to record significant actions taken by users, enhancing transparency and accountability.
- **Example:**

```
{"user_id": 1, "action": "created idea", "details": "New idea
created."}
```

- **Response:** The created audit log object, confirming successful logging of the action.

View Logic

Overview of viewsets and their methods:

- ♦ **UserViewSet:** Handles user-related actions such as profile retrieval and statistics.
 - **profile:** Retrieve user profile information.
 - **statistics:** Get user statistics.
 - **sync_offline_data:** Synchronize offline data.

```
class UserViewSet(viewsets.ModelViewSet):
    queryset = User.objects.all()
    serializer_class = UserSerializer

    @action(detail=False, methods=['get'])
    def profile(self, request):
```

```

        user = request.user
        serializer = self.serializer_class(user)
        return Response(serializer.data)

    @action(detail=False, methods=['get'])
    def statistics(self, request):
        # Logic to retrieve user statistics
        pass

    @action(detail=True, methods=['post'])
    def sync_offline_data(self, request, pk=None):
        # Logic to synchronize offline data
        pass

```

- **IdeaViewSet**: Manages ideas, including creation, retrieval, and voting.
 - **my_ideas**: Retrieve ideas created by the user.
 - **vote**: Vote on an idea.
 - **similar_ideas**: Retrieve similar ideas.
 - **recommended_collaborators**: Suggest collaborators for an idea.
 - **trending**: Get trending ideas.

```

class IdeaViewSet(viewsets.ModelViewSet):
    queryset = Idea.objects.all()
    serializer_class = IdeaSerializer

    @action(detail=False, methods=['get'])
    def my_ideas(self, request):
        user = request.user
        ideas = self.queryset.filter(creator=user)
        serializer = self.serializer_class(ideas,
        many=True) return Response(serializer.data)

    @action(detail=True, methods=['post'])
    def vote(self, request, pk=None):
        # Logic to handle voting on an idea
        pass

    @action(detail=True, methods=['get'])
    def similar_ideas(self, request, pk=None):
        # Logic to retrieve similar ideas
        pass

    @action(detail=True, methods=['get'])
    def recommended_collaborators(self, request, pk=None):
        # Logic to suggest collaborators
        pass

    @action(detail=False, methods=['get'])
    def trending(self, request):
        # Logic to get trending ideas
        pass

```


- ♦ **VoteViewSet**: Handles voting actions.

```
class VoteViewSet(viewsets.ModelViewSet):  
    queryset = Vote.objects.all()  
    serializer_class = VoteSerializer
```

- ♦ **TeamViewSet**: Manages teams and their members.
 - **add_member**: Add a member to the team.
 - **remove_member**: Remove a member from the team.

```
class TeamViewSet(viewsets.ModelViewSet):  
    queryset = Team.objects.all()  
    serializer_class = TeamSerializer  
  
    @action(detail=True, methods=['post'])  
    def add_member(self, request, pk=None):  
        # Logic to add a member to the team  
        pass  
  
    @action(detail=True, methods=['post'])  
    def remove_member(self, request, pk=None):  
        # Logic to remove a member from the team  
        pass
```

- ♦ **DocumentViewSet**: Handles document uploads related to ideas.

```
class DocumentViewSet(viewsets.ModelViewSet):  
    queryset = Document.objects.all()  
    serializer_class = DocumentSerializer
```

- ♦ **CommentViewSet**: Manages comments on ideas.

```
class CommentViewSet(viewsets.ModelViewSet):  
    queryset = Comment.objects.all()  
    serializer_class = CommentSerializer
```

- ♦ **NotificationViewSet**: Handles notifications for users.

```
class NotificationViewSet(viewsets.ModelViewSet):  
    queryset = Notification.objects.all()
```

```
serializer_class = NotificationSerializer
```

- ♦ **MilestoneViewSet**: Manages milestones related to ideas.

```
class MilestoneViewSet(viewsets.ModelViewSet):  
    queryset = Milestone.objects.all()  
    serializer_class = MilestoneSerializer
```

- ♦ **CategoryViewSet**: Handles categories for organizing ideas.

```
class CategoryViewSet(viewsets.ModelViewSet):  
    queryset = Category.objects.all()  
    serializer_class = CategorySerializer
```

- ♦ **AuditLogViewSet**: Manages audit logs for tracking actions.

```
class AuditLogViewSet(viewsets.ModelViewSet):  
    queryset = AuditLog.objects.all()  
    serializer_class = AuditLogSerializer
```

Models

Overview of models:

- ♦ **User**: Represents application users with roles and expertise.

```
from django.contrib.auth.models import AbstractUser  
  
class User(AbstractUser):  
    role = models.CharField(max_length=50)  
    expertise = models.TextField()
```

- ♦ **Idea**: Represents ideas submitted by users, including fields for title, description, and status.

```
from django.db import models  
  
class Idea(models.Model):
```

```
title = models.CharField(max_length=255)
description = models.TextField()
status = models.CharField(max_length=50, choices=[('draft', 'Draft'),
('submitted', 'Submitted'), ('approved', 'Approved')])
creator = models.ForeignKey(User, on_delete=models.CASCADE)
created_at = models.DateTimeField(auto_now_add=True)
updated_at = models.DateTimeField(auto_now=True)
```

- **Vote:** Represents votes cast by users on ideas, linking users and ideas.

```
class Vote(models.Model):
    user = models.ForeignKey(User, on_delete=models.CASCADE)
    idea = models.ForeignKey(Idea, on_delete=models.CASCADE)
    value = models.IntegerField(choices=[(1, 'Upvote'), (-1, 'Downvote')])
    created_at = models.DateTimeField(auto_now_add=True)
```

- **Team:** Represents teams working on ideas, including team members and leaders.

```
class Team(models.Model):
    name = models.CharField(max_length=255)
    leader = models.ForeignKey(User, related_name='teams_lead',
on_delete=models.CASCADE)
    members = models.ManyToManyField(User, related_name='teams')
```

- **Document:** Represents documents related to ideas, including file uploads.

```
class Document(models.Model):
    title = models.CharField(max_length=255)
    file = models.FileField(upload_to='documents/')
    idea = models.ForeignKey(Idea, on_delete=models.CASCADE)
    uploaded_at = models.DateTimeField(auto_now_add=True)
```

- **Comment:** Represents comments on ideas, allowing for discussions.

```
class Comment(models.Model):
    user = models.ForeignKey(User, on_delete=models.CASCADE)
    idea = models.ForeignKey(Idea, on_delete=models.CASCADE)
    content = models.TextField()
    created_at = models.DateTimeField(auto_now_add=True)
```

- **Notification:** Represents notifications sent to users for various actions.

```
class Notification(models.Model):
    user = models.ForeignKey(User, on_delete=models.CASCADE)
    message = models.TextField()
    created_at = models.DateTimeField(auto_now_add=True)
    is_read = models.BooleanField(default=False)
```

- **Milestone:** Represents milestones associated with ideas, tracking progress.

```
class Milestone(models.Model):
    idea = models.ForeignKey(Idea, on_delete=models.CASCADE)
    title = models.CharField(max_length=255)
    due_date = models.DateTimeField()
    created_at = models.DateTimeField(auto_now_add=True)
```

- **Category:** Represents categories for organizing ideas, allowing for better categorization.

```
class Category(models.Model):
    name = models.CharField(max_length=255)
    description = models.TextField()
```

- **AuditLog:** Represents logs of user actions for accountability and tracking.

```
class AuditLog(models.Model):
    user = models.ForeignKey(User, on_delete=models.CASCADE)
    action = models.CharField(max_length=255)
    timestamp = models.DateTimeField(auto_now_add=True)
    details = models.TextField()
```

Authentication

JWT authentication is implemented using `rest_framework_simplejwt`. Tokens are issued upon user login and can be refreshed using the refresh endpoint. This ensures secure access to the API.

Testing

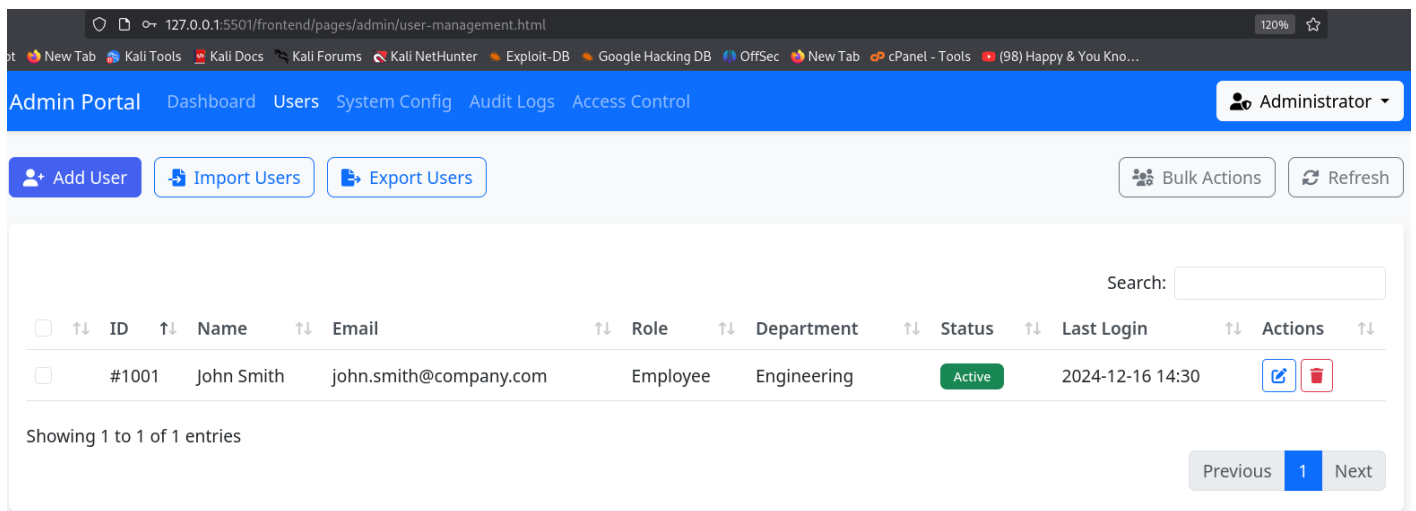
To run tests, use the following command:

```
python manage.py test
```

This will execute all test cases defined in the application, ensuring that all functionalities work as expected.

User Interfaces

File: `frontend/pages/admin/user-management.html`

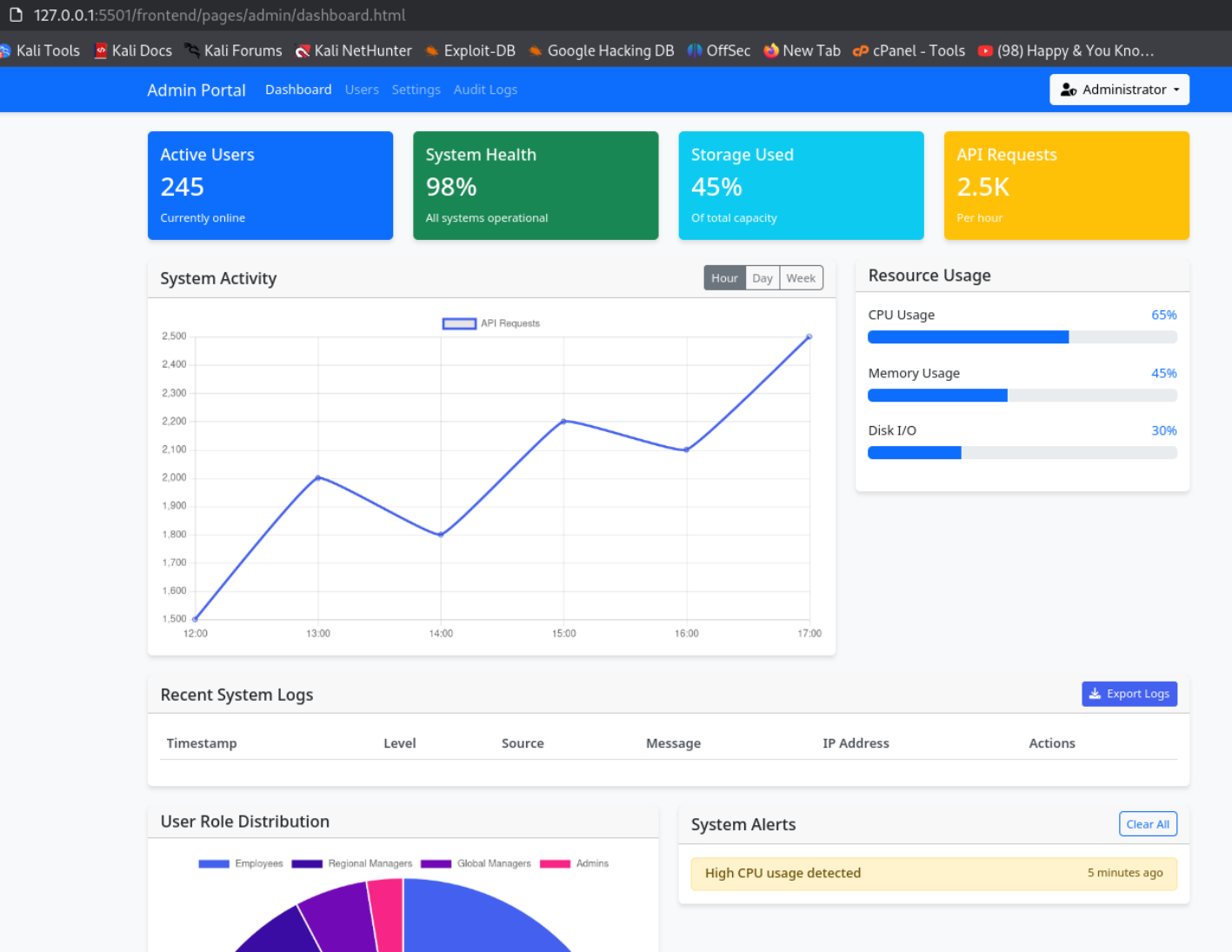


Explanation: This page is likely where administrators can manage user accounts, including adding, editing, or removing users. Screenshots here could show the user management interface, including forms for adding users or lists of existing users.

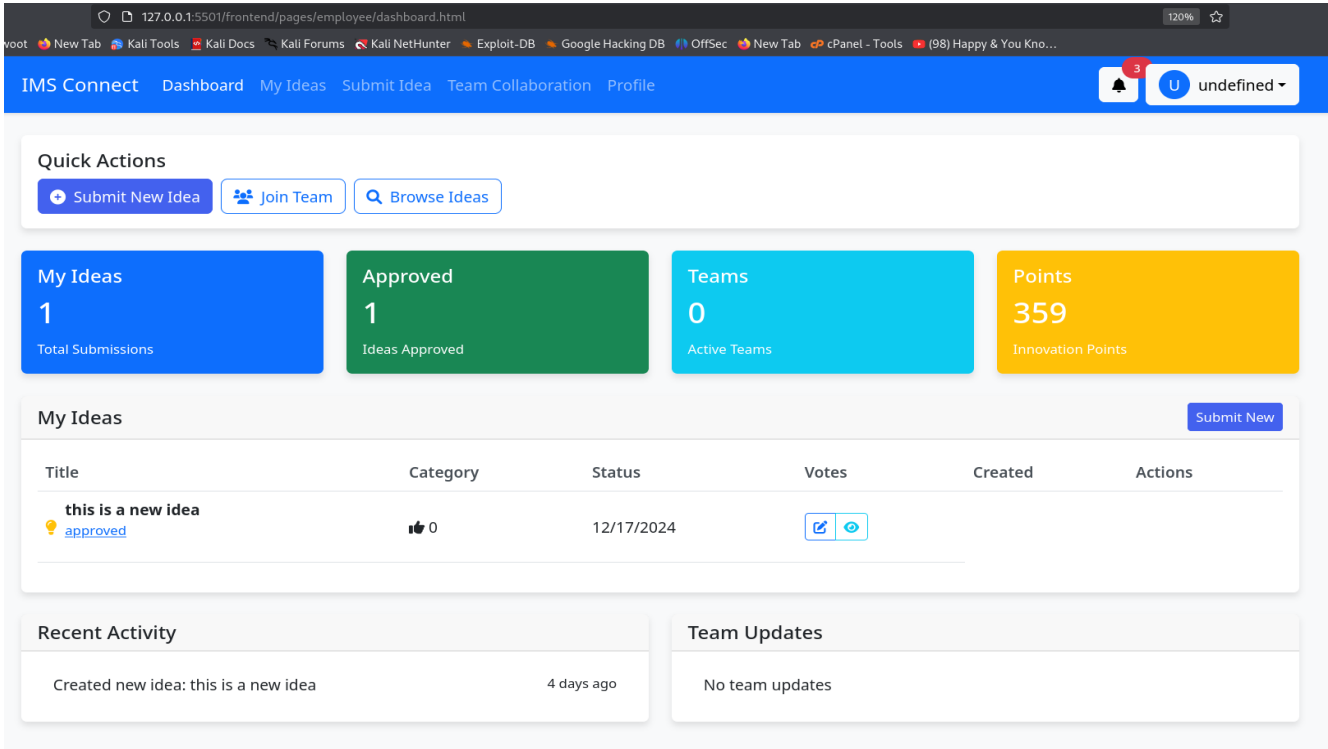
Dashboard Pages

Files:

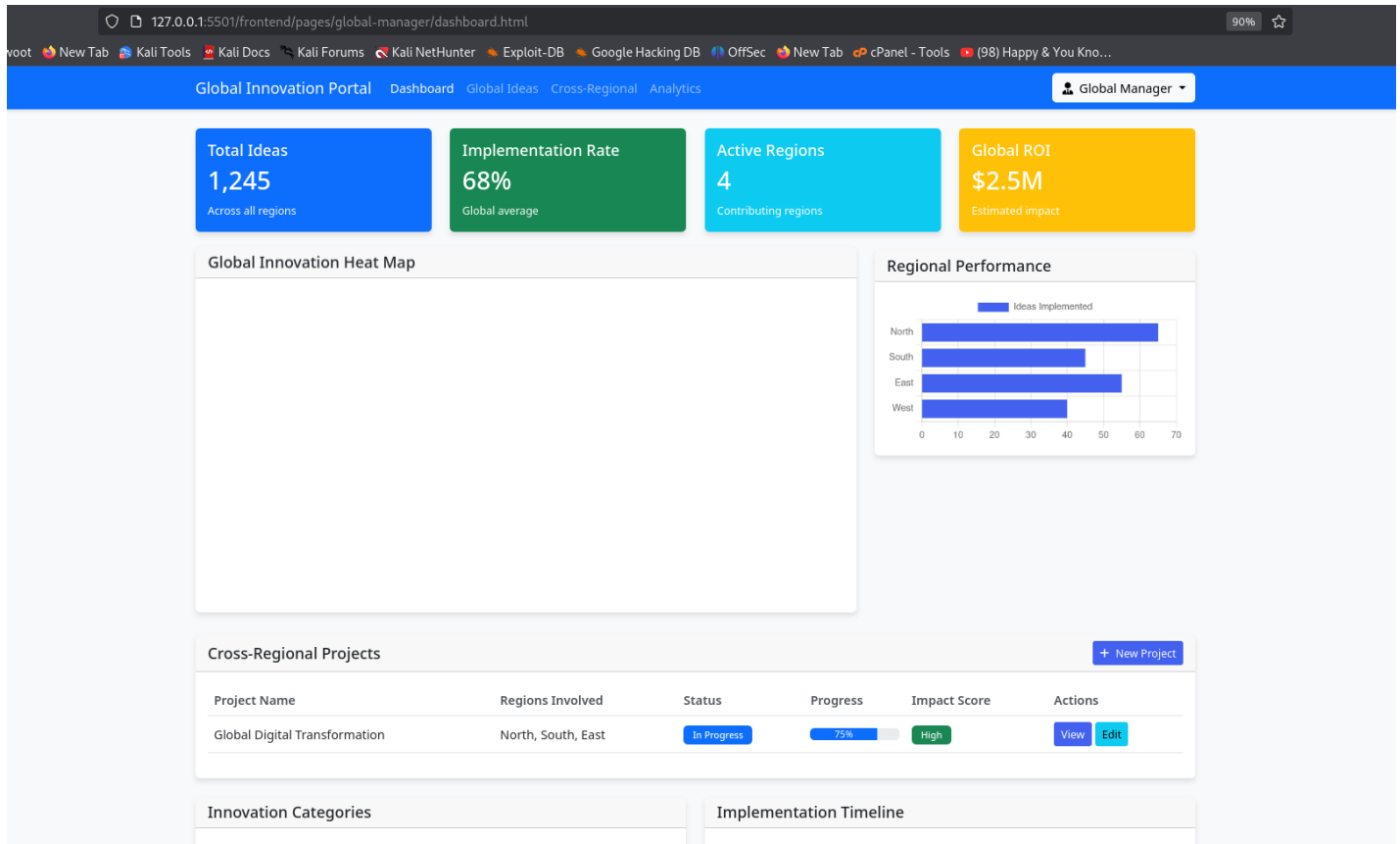
- `frontend/pages/admin/dashboard.html`



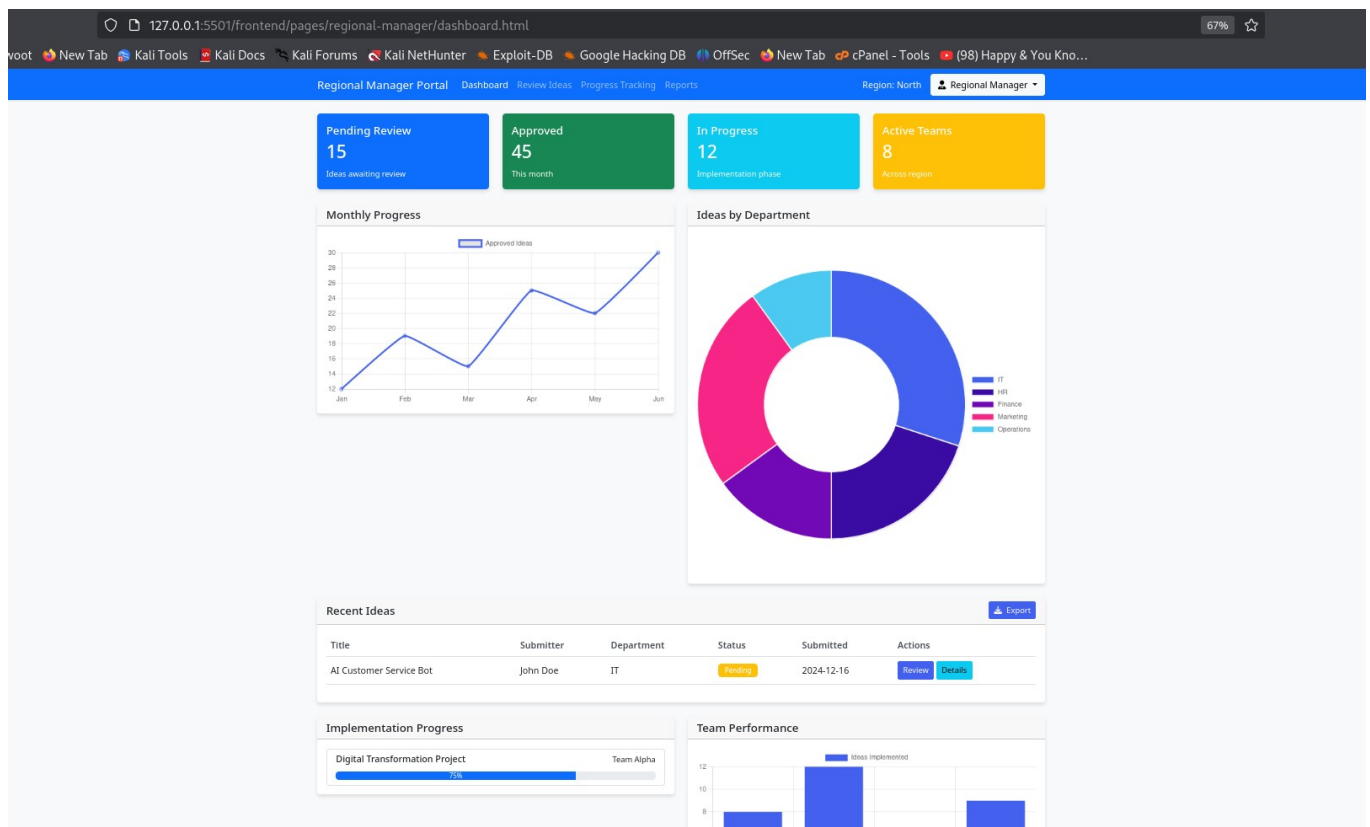
♦ frontend/pages/employee/dashboard.html



- frontend/pages/global-manager/dashboard.html



- frontend/pages/regional-manager/dashboard.html



Explanation: These dashboard pages provide an overview of key metrics and information relevant to different user roles. Screenshots could illustrate the dashboard

layout, key performance indicators, and any interactive elements.

Idea Submission Page

File: frontend/pages/ideas/submit.html

127.0.0.1:5501/frontend/pages/ideas/submit.html90%☆

rootNew TabKali ToolsKali DocsKali ForumsKali NetHunterExploit-DBGoogle Hacking DBOffSecNew TabcPanel - Tools(98) Happy & You Kno...

IMS ConnectDashboardSubmit IdeaTeamsAnalyticsJohn Doe

Submit New Idea

Title






Enter a clear, concise title for your idea

Make it descriptive and engaging

Category

Select a category

Description

B I U     

Describe your idea in detail...

Provide detailed information about your idea

Tags

Add relevant tags

Add keywords to help others find your idea

Expected Impact

Select impact area

Select impact level

Implementation Timeline

Estimated timeline

Resource requirements

Attachments

Browse...

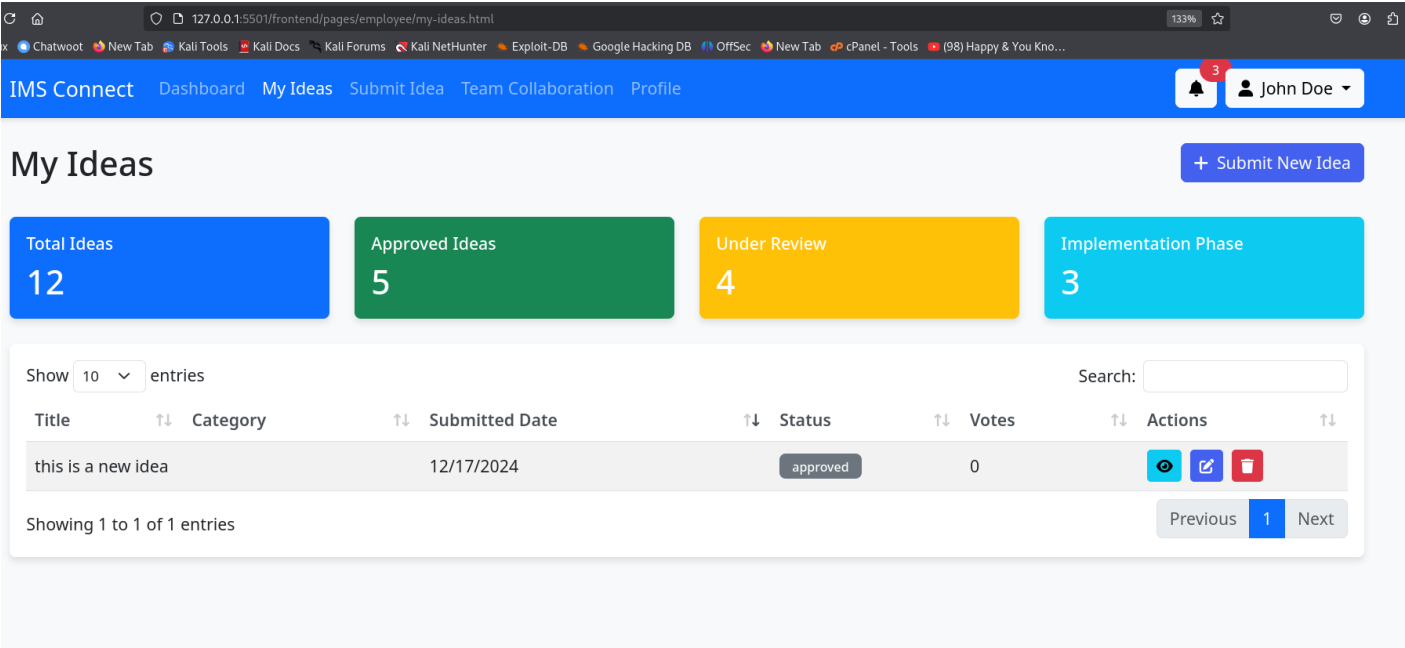
No files selected.

Upload relevant documents, images, or presentations (max 5 files, 10MB each)

Explanation: This page is where users can submit new ideas. Screenshots could show the submission form, including fields for title, description, and any other relevant inputs.

My Ideas Page

File: `frontend/pages/employee/my-ideas.html`

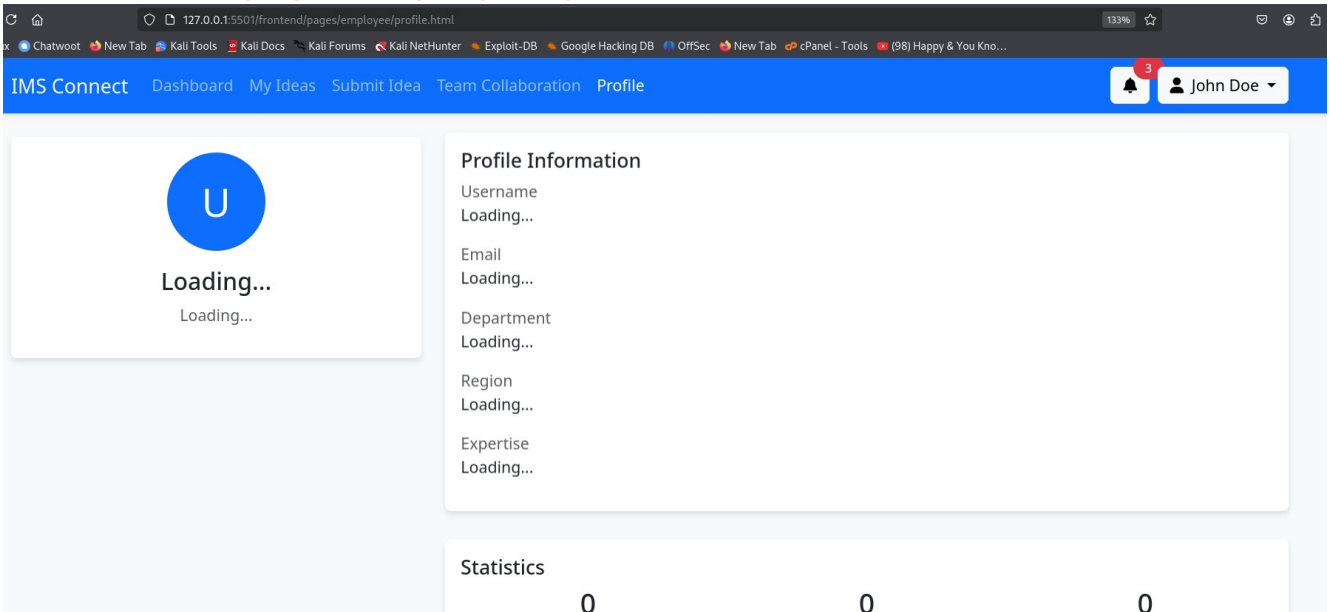


Explanation: This page likely displays the ideas submitted by the logged-in user. Screenshots could show the list of ideas, their statuses, and options to edit or delete them.

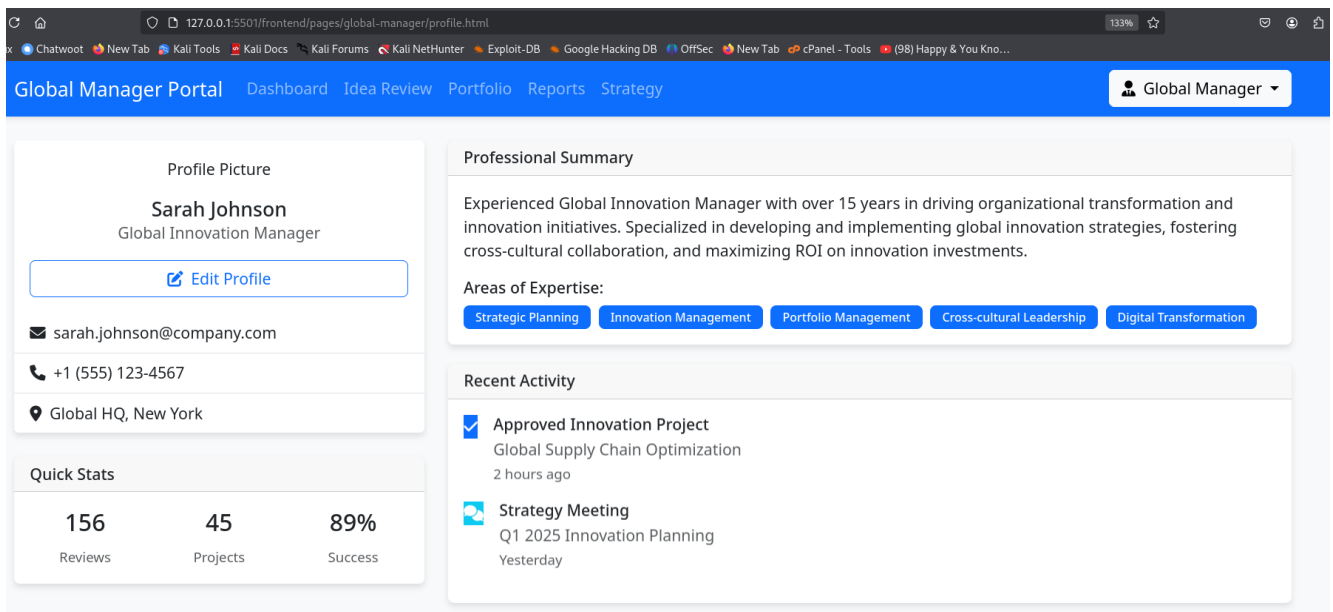
Profile Page

Files:

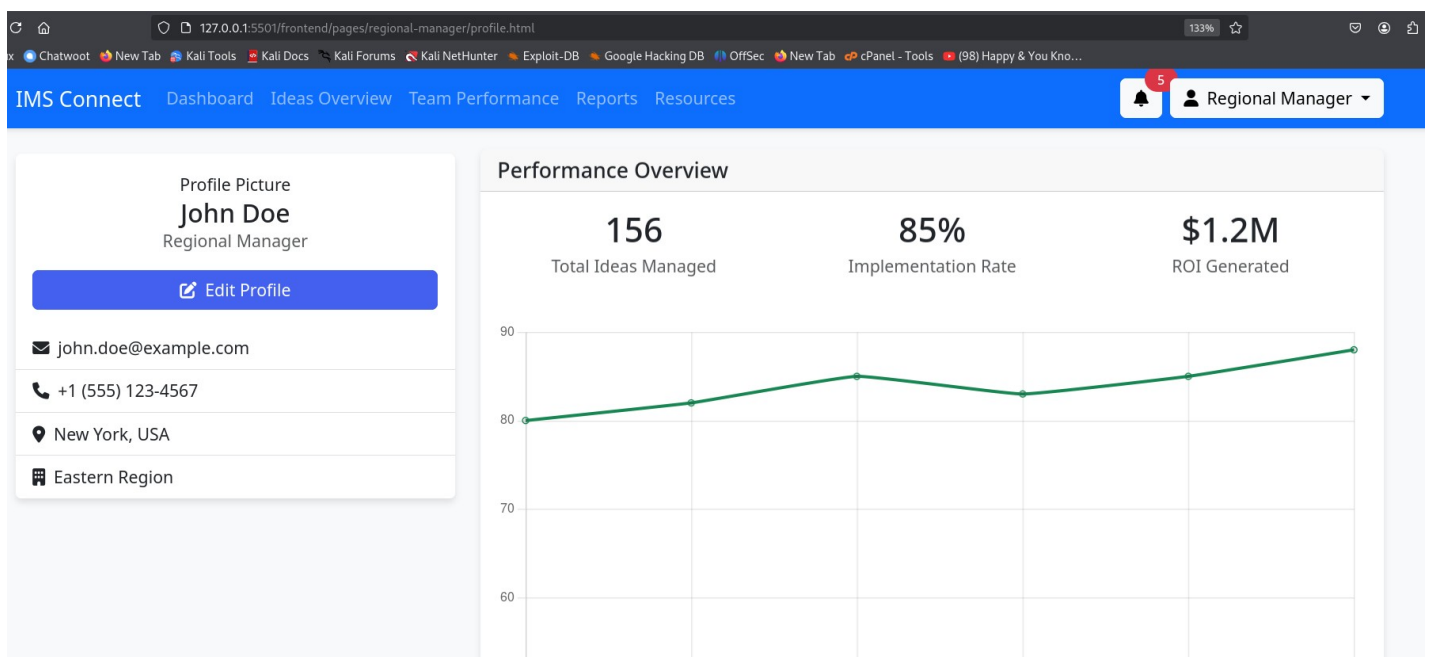
- ◆ `frontend/pages/employee/profile.html`



- frontend/pages/global-manager/profile.html



- frontend/pages/regional-manager/profile.html

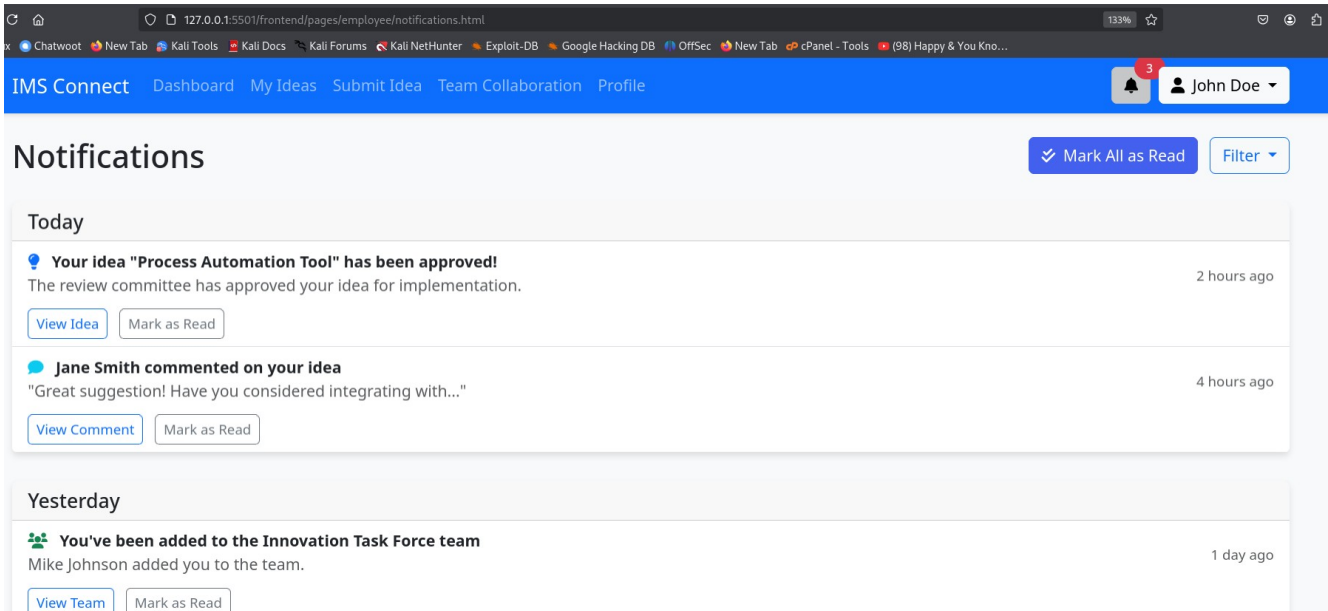


Explanation: These pages allow users to view and edit their profile information. Screenshots could show the profile details, including user roles and expertise.

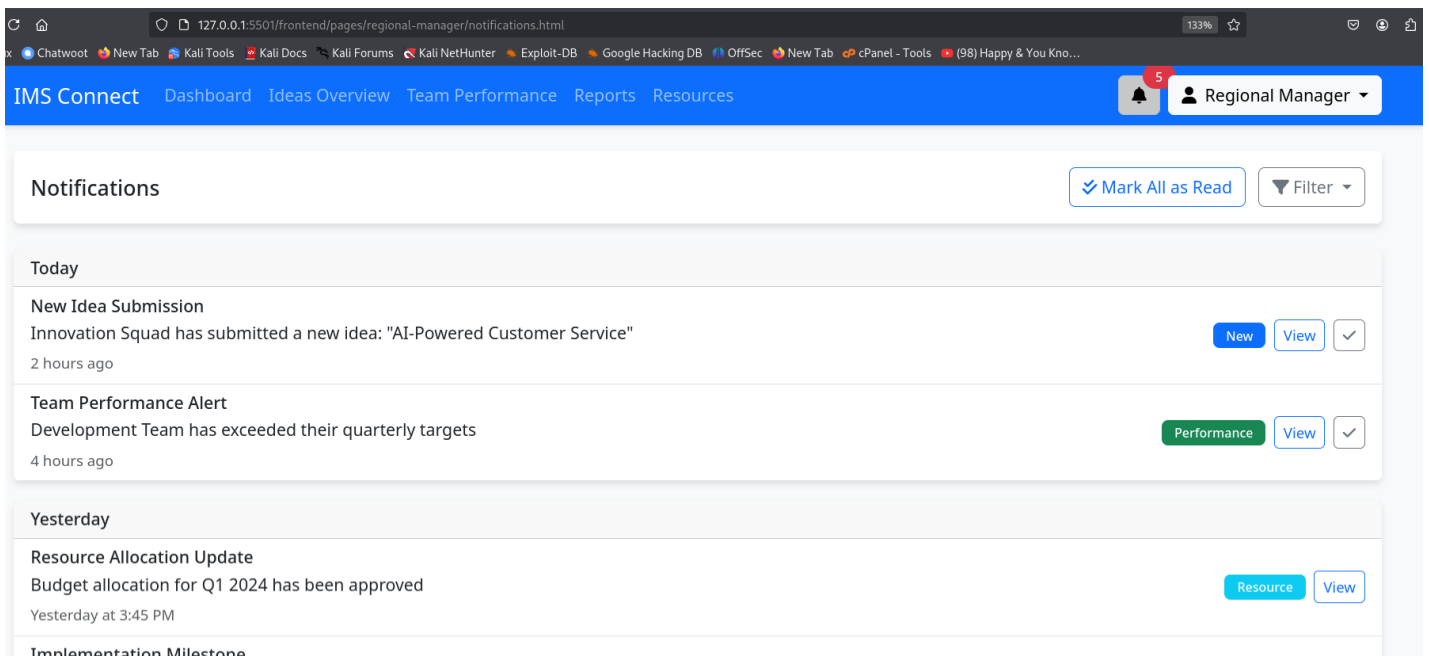
Notifications Page

Files:

- frontend/pages/employee/notifications.html



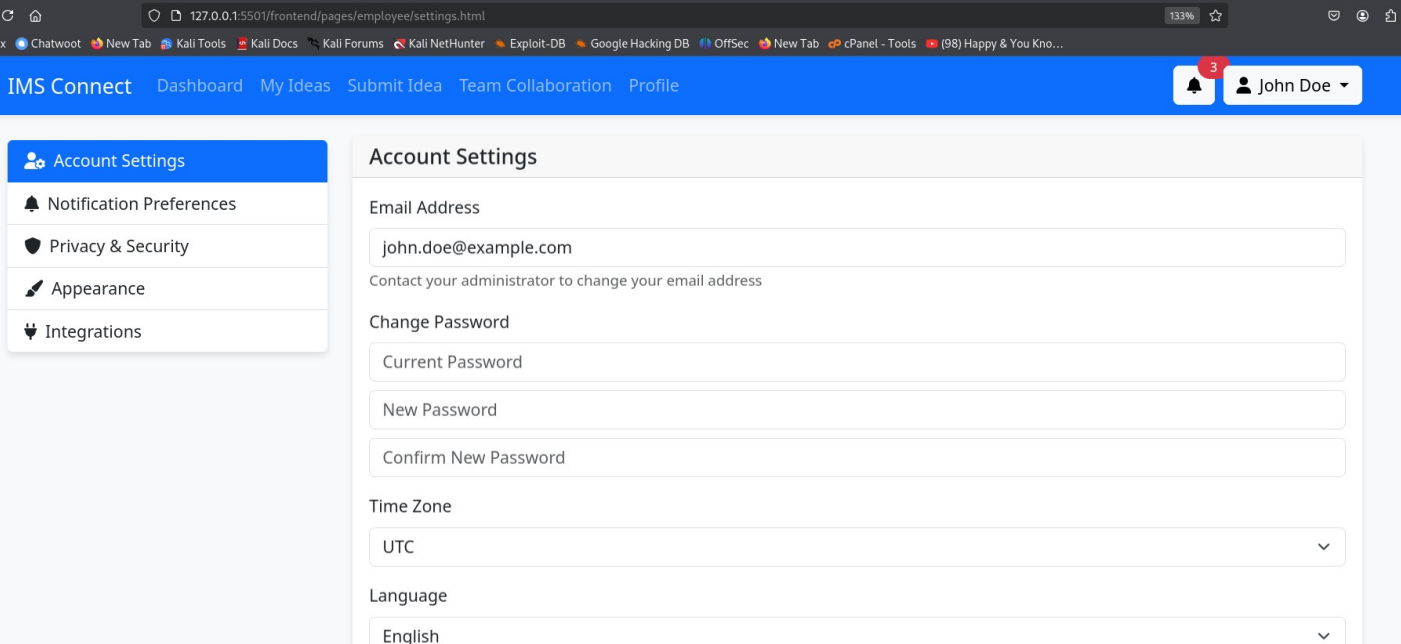
- `frontend/pages/regional-manager/notifications.html`



Explanation: These pages display notifications related to user activities. Screenshots could illustrate how notifications are presented and any actions users can take (e.g., marking as read).

Settings Page

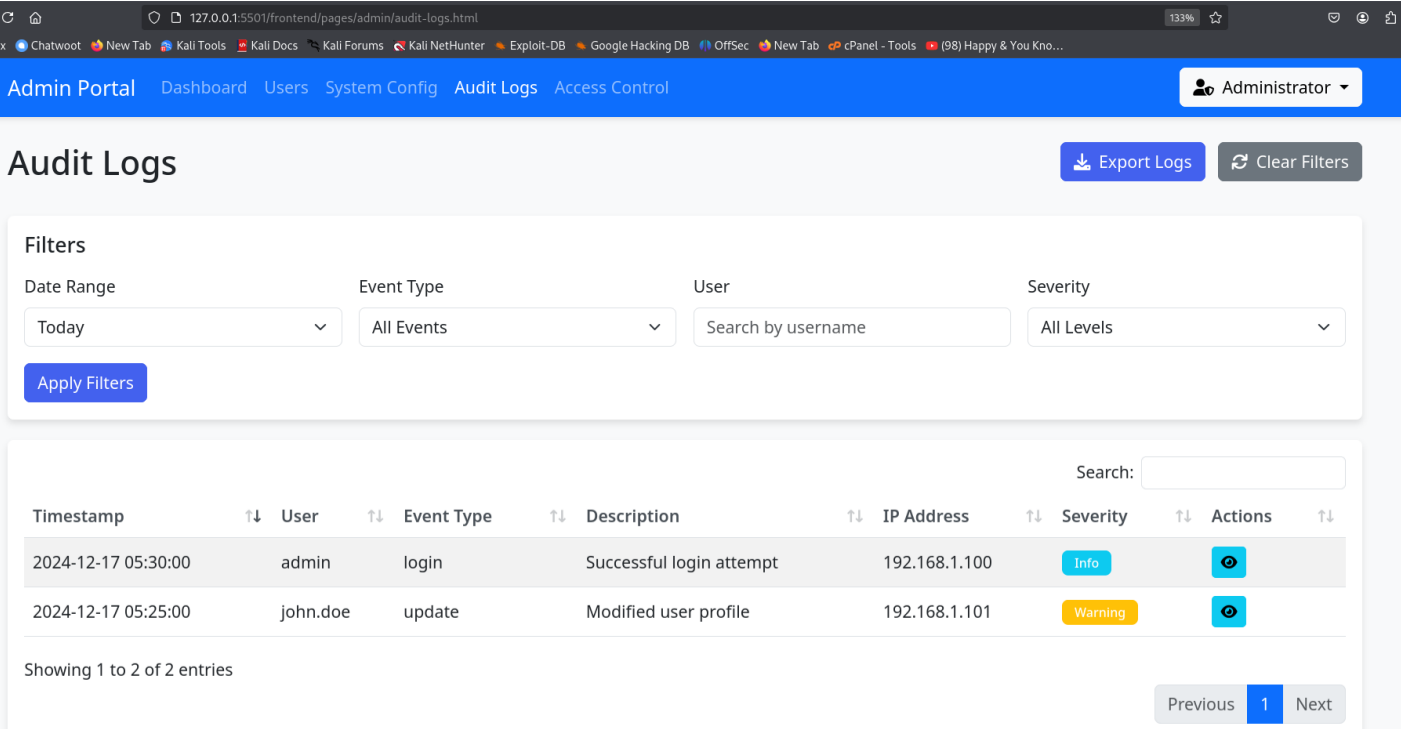
File: `frontend/pages/employee/settings.html`



Explanation: This page is where users can adjust their account settings. Screenshots could show the available settings options and any relevant forms.

Audit Logs Page

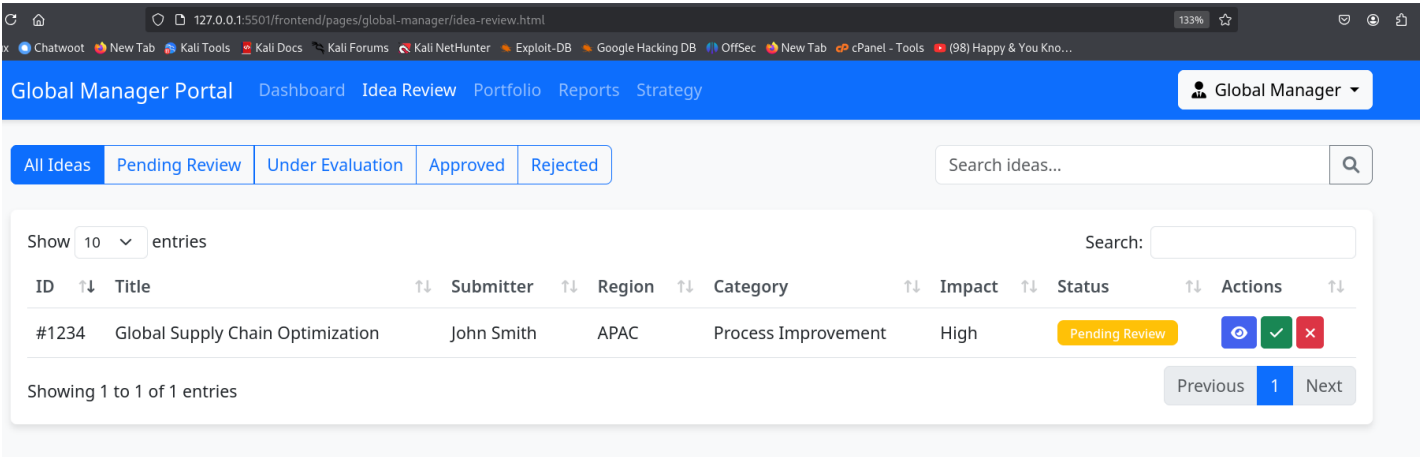
File: `frontend/pages/admin/audit-logs.html`



Explanation: This page likely displays logs of user actions for accountability. Screenshots could show the log entries and any filtering or searching capabilities.

Idea Review Page

File: frontend/pages/global-manager/idea-review.html

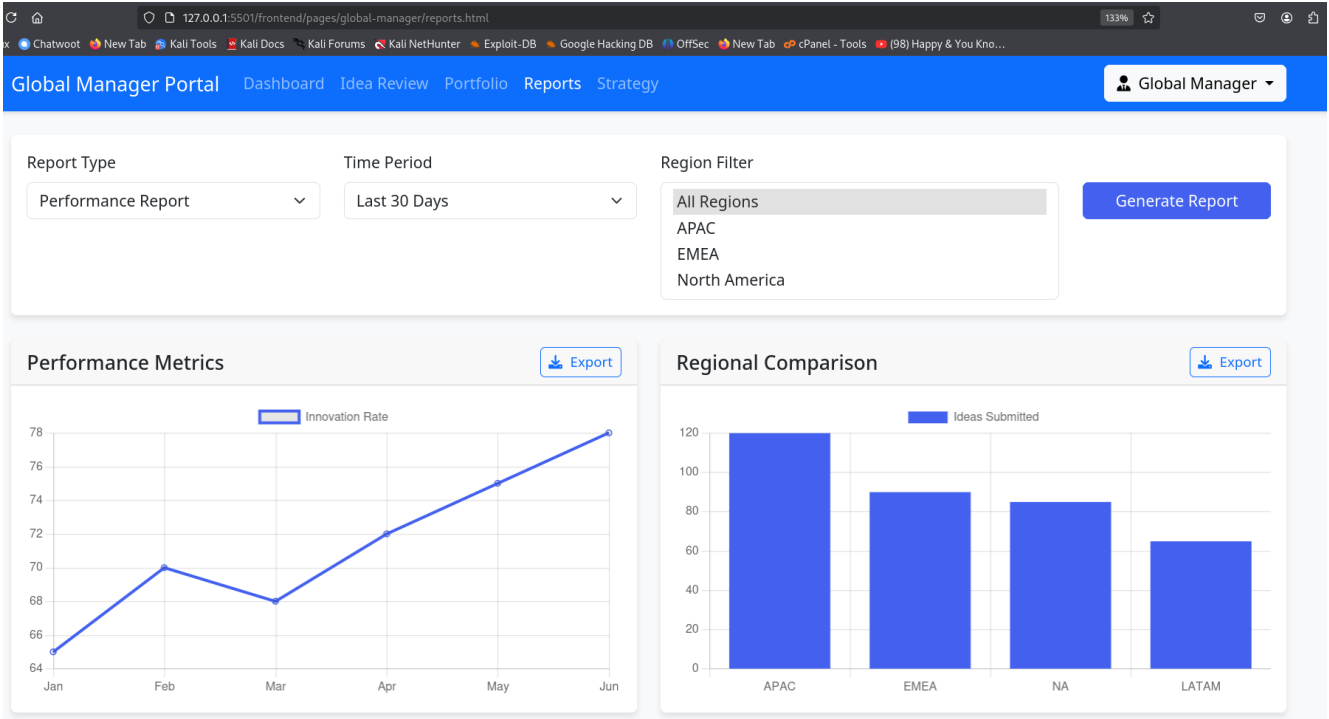


Explanation: This page is likely for reviewing submitted ideas. Screenshots could show the review interface, including options for approval or feedback.

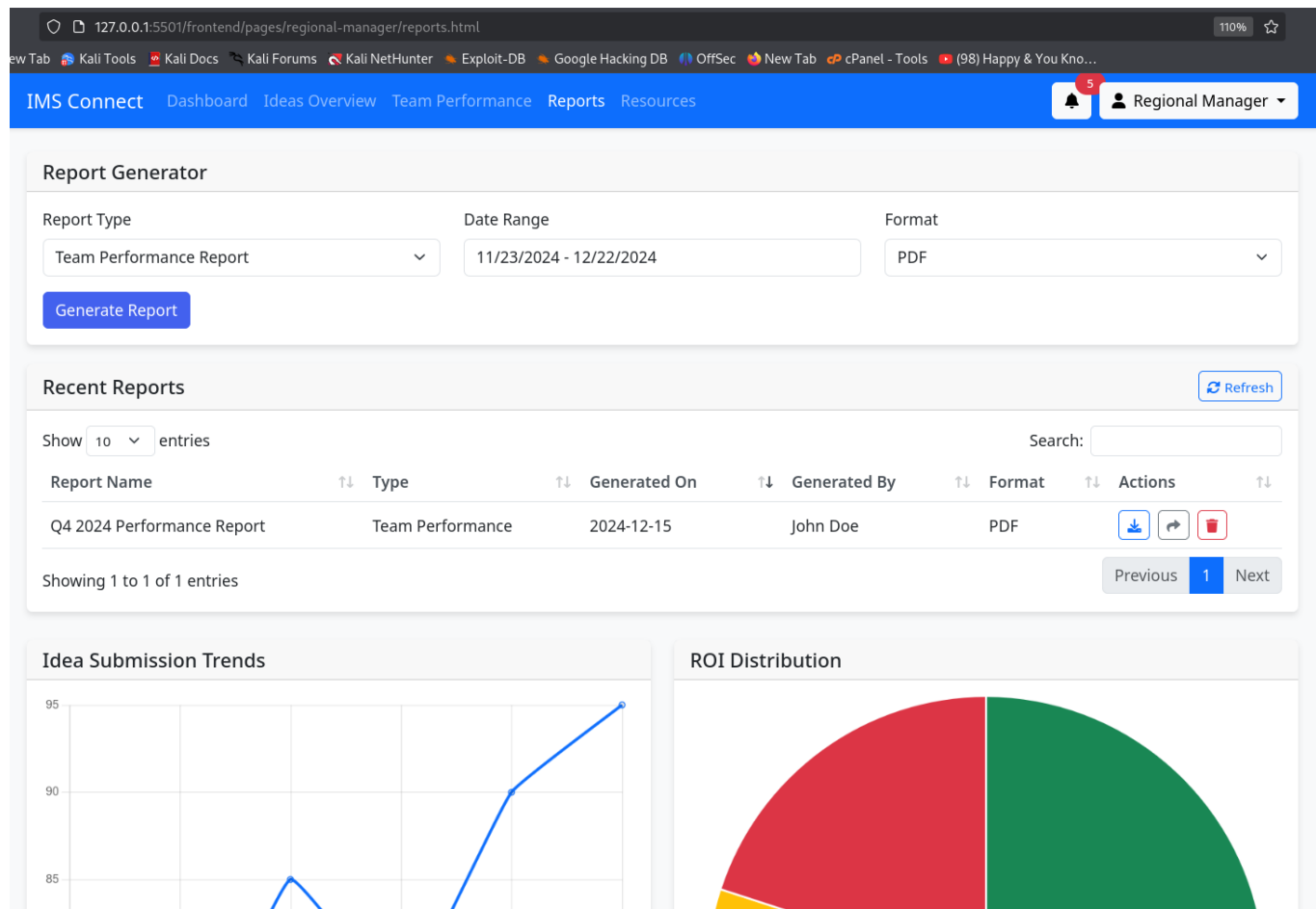
Reports Page

Files:

- frontend/pages/global-manager/reports.html



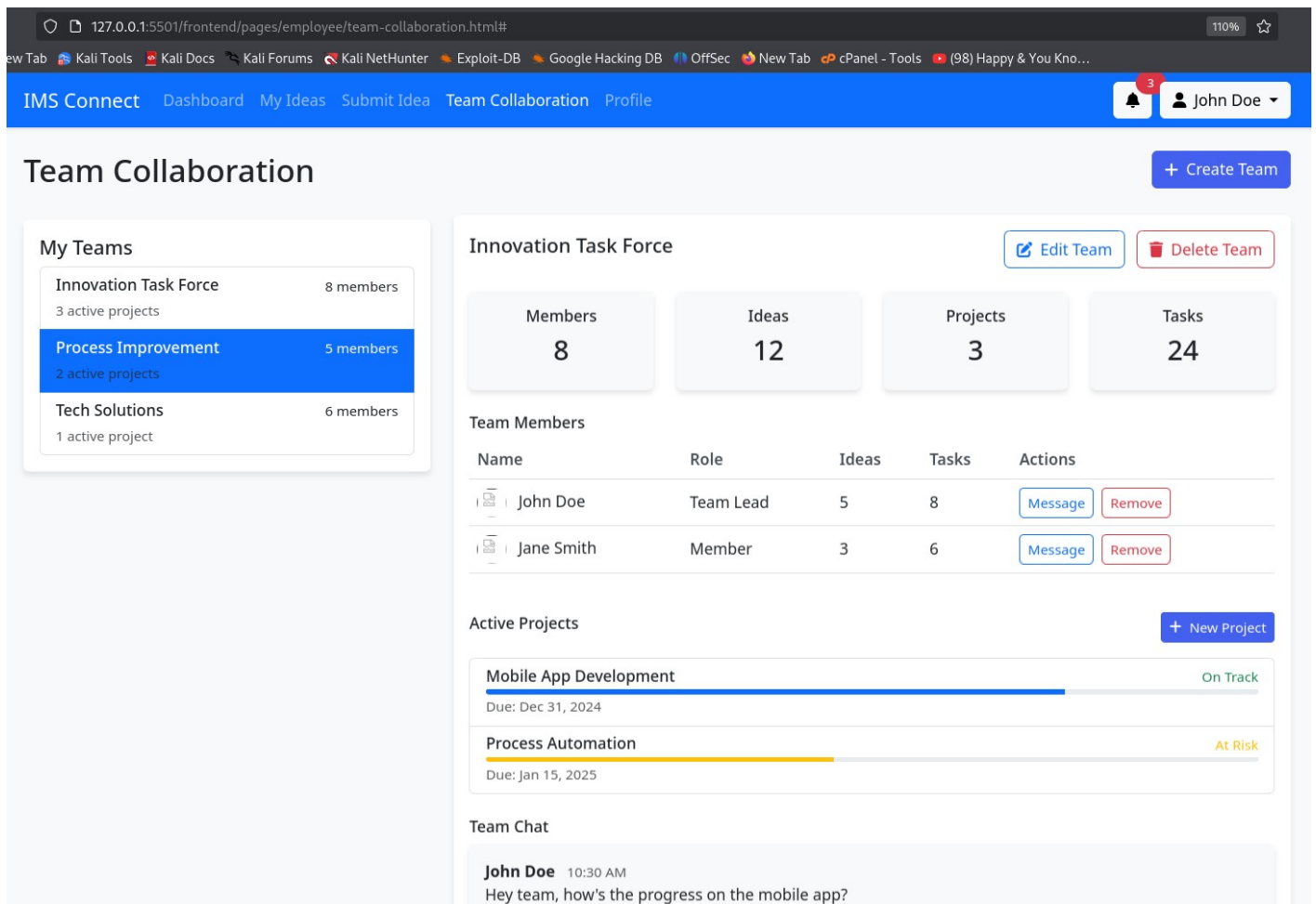
- frontend/pages/regional-manager/reports.html



Explanation: These pages likely provide detailed reports on various metrics. Screenshots could illustrate the types of reports available and how to access them.

Team Collaboration Page

File: frontend/pages/employee/team-collaboration.html



Explanation: This page is where team members can collaborate on ideas. Screenshots could show collaboration tools, team member lists, and any shared documents.

Milestones Page

planation: This page would track milestones associated with ideas. Screenshots could show milestone tracking features.