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1. Technical Documentation

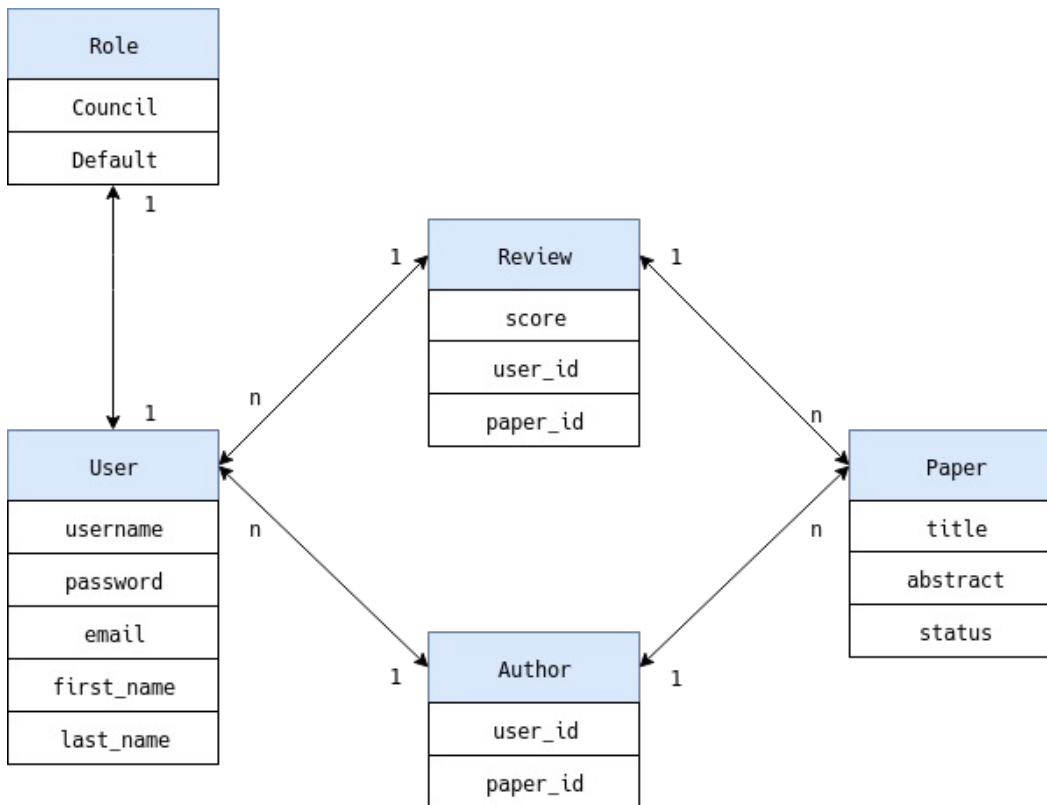
This Project was Developed as a part of a Univeristy exercise and is a platform to publish, rate and validate papers. It was developed in Python

Flask only and does not contain any additional libraries.

Developer Tools and Decorator Class

- The helper class `url_for`, was created to make it possible to get around the caching of the browsers. It is mainly meant for development purposes since it makes it easier to debug and test css styling on the fly.
- The decorator class, brings functionality such as `login_required` and `required_role`. This makes authentication and authorization requirements for parts of the application much easier.

Database–Schema



The database–schema on which this application was developed of, consists of five tables: 'users', 'papers', 'reviews', 'authors' and 'roles'. You can see the relational quantities and the contents of the tables in the detailed uml–diagram above.

Once the schema was set it was pretty straight forward to setup the

Models. The reason we decided to separate the Author and Review tables, was to simplify the relations between the user and paper to the review and author. This way it made it is easier to use and manage the relations since additional information could be stored in either table if required.

Used Pattern for app structure

We went the with Model–View–Control(MVC) pattern for this application.

- Model
 - Our models are the database representations of the tables.
 - To improve performance minor tweaks could have been done to the paper model since it contains functionality which should be in the controllers, the functions mentioned here are the: get status and get score functions
- Control
 - The main controller is the views.py
 - Redirect requests and general form request are processed here
 - It is responsible to process every incoming query, request and only return processed data to the view
 - Helper controllers such as user_controller, paper_controller and role_controller were written to abstract functionality and handle database specific queries
- View
 - The views are the jinja2 templates which display the data delived by the controllers, which get rendered through flask's render_template method

Design Decisions

The whole design of the pages were done manually and support mobile usage, but are not meant for mobile usage.

We focused strongly on the aspect reusability of css and html code through inheritance of jinja2 templates.

Outlook

The current version of the website is just the first step – MVP. There are a lot of points that can be extended to increase the user experience and should be considered in the future.

- Improved ui for mobile
- Extend usability of the website by working together with the user.
 - example: Select boxes for assigning reviewer, allow double click to assign.
- More validation on all forms and fields
 - example: Minimum length for title & abstract
- Feedback about wrong input (Currently it's mostly the happy path).
- Upload for the file of the paper
 - A way to display the paper on the website
- More concrete Role description.
 - What is a normal user allowed to see & change?
 - Can only create papers for him self?
 - Only the initial creator can add authors and can not be removed?
 - What can the conference chair do?
 - Creation of paper?
 - Nominate new conference chair member?
- User & Invitation system.
 - User can send invitation to co-authors of their paper, that are not yet registered on the page.
 - Profile page of user, where other user can see the papers of them.
 - Profile page with avatar and some comments from the user.

3. Setting up the project

download the repository

```
git@github.com:SebastianKapunkt/paper-review-  
platform.git
```

cd into the project folder

```
cd paper-review-platform
```

install requirements

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

set envirement varaible

```
export FLASK_APP=app/__init__.py
```


2. Instruction for use of website

Registration

Information required to create an account:

- a username
- firstname
- lastname
- email
- password

You can find the signup page here or under </signup>



Paper Review Platform

[Create Account](#)[Login](#)

please enter the require information into the form:

SignUp

Username

Email

Firstname

Lastname

Password

Sign up

Login

To signin you need to enter your e-mail and password. You can find the Login under </signin>

Login

Email

example@mail.com

Password

.....

login

Logout

You can find the logout in the top right of the page, in a dropdown by hovering your name. Or go to [/signout](#)

Paper Review Platform

Clara Sanders ▾

Overview

Logout

Overview

Paper

Submit Paper

Submitting a paper

For submitting a paper you go to [/submission](#) or find the tap in the navigation bar:

Overview

Paper

Submit Paper

Now you can see the form.

1. Field for the title of the paper.
2. Field for the abstract of the paper.
3. A list of people that can be authors. Note here that if you don't select any author, you will be the author automatically. To assign someone as a author select a user and press on the button 'Add'(4).
4. Buttons to push items from one box to the other. 'Add' will push selected item from left to right and 'Remove' the other way around.
5. This is the list of selected authors. Only the user in that list will be author, don't forget your self if you are one!
6. Once everything is filled you can submit 'create' the paper.

The screenshot shows the 'Paper Review Platform' interface. At the top right, the user 'Clara Sanders' is logged in. The main title 'Paper Review Platform' is centered. Below it are three tabs: 'Overview', 'Paper', and 'Submit Paper'. The 'Submit Paper' tab is active. The form contains several fields and buttons, numbered 1 through 6 in red circles:

- 1**: A text input field for the 'Title'.
- 2**: A text input field for the 'Abstract'.
- 3**: A list of potential authors: 'council', 'clara', 'peter', and 'julia'.
- 4**: Two buttons between the author lists: 'Add →' and '← Remove'.
- 5**: An empty box for the selected authors.
- 6**: A 'create' button in the 'Action' section.

Paper list/detail/edit

List of all paper

All papers that were submitted on this platform are listed here and shown in reversed chronological order, latest first

The list of paper can be found here: </paper> or in the navigation bar:





[Overview](#)[Paper](#)[Submit Paper](#)

1. Column for title of paper
2. Column for list of authors of that paper
3. Column for status of paper
4. If you click on a row you come to the detail view of a paper

Clara Sanders ▾

Paper Review Platform

[Overview](#)[Paper](#)[Submit Paper](#)

Title 	Authors 	Status 
The products of a single maize sesquiterpene synthase form a volatile defense signal that attracts natural enemies of maize herbivores 	elias	Under Review
Results from a Low-Energy Analysis of the CDMS II Germanium Data	maria peter	Under Review
Zur Rührabhängigkeit des Grenzstromes an teilweise bedeckten rotierenden Scheibenelektroden bei relativ grossen Umdrehungszahlen	clara elias maria	Under Review
Practical application and evaluation of no-SQL databases in Cloud Computing	julia maria peter	Approved
sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam vol	clara elias julia	Under Review

Paper detail view

In this view you can find all the information that are public, to see for all user.

1. Tiel of the paper.
2. Abstract of the paper.
3. List of the authors.
4. Status of the paper.
5. If you are an author, you can see the edit button and use it to get to the edit view.

Paper Review Platform

Overview **Paper** Submit Paper

Title ❶ Edit	Authors ❸ clara elias maria
Zur Rührabhängigkeit des Grenzstromes an teilweise bedeckten rotierenden Scheibenelektroden bei relativ grossen Umdrehungszahlen	
Abstract ❷ Model electrodes having a known number of active circular sites were used to obtain the dependence of the limiting current on the rate of rotation of disk electrodes. The limiting current may be calculated by means of the formula for the ring electrode if the sites are sufficiently large and sufficiently far apart. For smaller sites, the current is larger than that given by this equation because non-linear as well as linear diffusion and convection contribute to it. The current to each site is influenced by that to neighbouring sites if they are not sufficiently far apart. In this case it was not possible to calculate the contribution of non-linear diffusion to the limiting current. It lay between the value calculated considering linear and non-linear diffusion and that calculated taking into account convection in addition to the two types of diffusion.	
Status ❹ Under Review	

Paper edit

In this view as an author you can edit your paper information. And also add or remove authors (also your self!)

1. Change title of paper.
2. Change abstract of paper.
3. Add & Remove authors.
4. [Save & continue] -- you save the data you changed and also stay on the page.
5. [Save] -- you save the data you changed and go back to the detail view (As a feature request it can also be the list of papers or the users overview page).
6. [Cancel] -- You don't save any data and just go back to the detail view (Or if requested as a change to another view).
7. Status of the paper

Paper Review Platform

Overview

Paper

Submit Paper

Title ⓘ

Zur Rührabhängigkeit des Grenzstromes an teilweise bedeckten rotierenden Scheiben

Abstract ⓘ

Model electrodes having a known number of active circular sites were used to obtain the dependence of the limiting current on the rate of rotation of disk electrodes. The limiting current may be calculated by means of the formula for the ring electrode if the sites are sufficiently large and sufficiently far apart. For smaller sites, the current is larger than that given by this equation because non-linear as well as linear diffusion and convection contribute to it.

Authors

julia
council
peter

③

Add →

← Remove

clara
elias
maria

Actions

④

save and continue

⑤

save

⑥

cancel

Status

⑦

Under Review

User overview page and review

User overview page

This page is the landing and main page for the logged in user (you 😊)
 You can find it at the root "/" or in the navigation bar:

Overview

Paper

Submit Paper

Here you have two 'filter'/main lists of paper

1. [Your submitted papers / where you are author](#)
2. [Papers where you are assigned to review](#)

Overview

Paper

Submit Paper

submitted

to review

Submitted paper

This is a list of papers you submitted or you are an author of.

1. Title of the paper.
2. Authors of the paper.
3. Stauts of the paper.
4. If you click on a row you come to the detail view of the paper (explained here).

Clara Sanders

Paper Review Platform

Overview

Paper

Submit Paper

submitted

to review

Title	Authors	Status
Zur R�hrabh�ngigkeit des Grenzstromes an teilweise bedeckten rotierenden Scheibenelektroden bei relativ grossen Umdrehungszahlen	clara elias maria	Under Review
sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam vol	clara elias julia	Under Review

Papers to review

This is a list of papers where you got requested from the conference chair to review them.

1. Column title of paper.
2. Column authors of paper.

3. Column status of paper.
4. Column of score of your review of that paper. It is None if you haven't reviewed it yet or has the score you have it.
5. If you click on the row you can go to submit or change a review

Clara Sanders ▾

Paper Review Platform

Overview Paper Submit Paper


submitted		to review		
Title	Authors	Status	Score	
The products of a single maize sesquiterpene synthase form a volatile defense signal that attracts natural enemies of maize herbivores	elias	Under Review	None	
Practical application and evaluation of no-SQL databases in Cloud Computing	julia maria peter	Approved	2	

Review a paper

At this page you can see the papers you were requested to review

Review

Please add a review:


save and continue
save

1. represents the rating in stars.
 - 1 star = -2
 - 2 stars = -1
 - 3 stars = 0
 - 4 stars = 1
 - 5 stars = 2
2. This button will submit your review and you will stay on that page.
3. This button will submit your review and you will be redirected to

your overview page

4. The title of the paper to review.
5. The abstract of the paper to review.

Clara Sanders ▾

Paper Review Platform

Overview Paper Submit Paper

Review

Please add a review:

1

2

3

4

5

save and continue

save

Title

4

The products of a single maize sesquiterpene synthase form a volatile defense signal that attracts natural enemies of maize herbivores

Abstract

5

Plants can defend themselves against herbivores by attracting natural enemies of the herbivores. The cues for attraction are often complex mixtures of herbivore-induced plant volatiles, making it difficult to demonstrate the role of specific compounds. After herbivory by lepidopteran larvae, maize releases a mixture of volatiles that is highly attractive to females of various parasitic wasp species. We identified the terpene synthase TPS10 that forms (E)- β -farnesene, (E)- α -bergamotene, and other herbivory-induced sesquiterpene hydrocarbons from the substrate farnesyl diphosphate. The corresponding gene is expressed in response to herbivore attack and is regulated at the transcript level. Overexpression of tps10 in *Arabidopsis thaliana* resulted in plants emitting high quantities of TPS10 sesquiterpene products identical to those released by maize. Using these transgenic *Arabidopsis* plants as odor sources in olfactometer assays showed that females of the parasitoid *Cotesia marginiventris* learn to exploit the TPS10 sesquiterpenes to locate their lepidopteran hosts after prior exposure to these volatiles in association with hosts. This dissection of the herbivore-induced volatile blend demonstrates that a single gene such as tps10 can be sufficient to mediate the indirect defense of maize against herbivore attack.

Conference Chair

If you are a member of this group you will be able to access the 'conference chair' site. You can find it in the navigation bar:

Overview Paper Submit Paper **Conference Chair**

List of paper

1. Column title of paper.
2. Column reviewer of paper. These are the users that are assigned by the conference chair to review a paper.
3. Column authors of paper.
4. Column status of paper.

5. Column score of review of paper. This is the average over all the scores in reviews given.
6. When you click on a row you will come to the work view for the conference chair of that paper.

Conference Chair ▾

Paper Review Platform

[Overview](#)
[Paper](#)
[Submit Paper](#)
[Conference Chair](#)

1 Title	2 Reviewer	3 Authors	4 Status	5 Score
The products of a single maize sesquiterpene synthase form a volatile defense signal that attracts natural enemies of maize herbivores 6	clara julia peter	elias	Under Review	None
Results from a Low-Energy Analysis of the CDMS II Germanium Data		maria peter	Under Review	None
Zur Rührabhängigkeit des Grenzstromes an teilweise bedeckten rotierenden Scheibenelektroden bei relativ grossen Umdrehungszahlen		clara elias maria	Under Review	None
Practical application and evaluation of no-SQL databases in Cloud Computing	clara elias	julia maria peter	Approved	2.0
sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam vol	maria peter	clara elias julia	Under Review	None

Work view for the conference chair

1. Title of the paper.
2. Abstract of the paper.
3. Add & Remove reviewer. Note that if you unassign a reviewer the review is gone to, even if you add the reviewer again.
4. Button to set the status 'approve'
5. Button to set the status 'rejected'
6. Button to set the status 'under_review'
7. [save and continue] -- save changes made on the page and stay on the page.
8. [save] -- save changed made and go back to the list of paper (conference chair).
9. [cancel] -- save nothing and go back to list of paper (conference chair)

chair).

10. Current status of the paper.
11. Authors of the paper.
12. Reviews of the paper. First row is the average score of the paper over all reviews. The following rows are the individual reviews with their scores.

Conference Chair ▾

Paper Review Platform

OverviewPaperSubmit PaperConference Chair

Title ❶

The products of a single maize sesquiterpene synthase form a volatile defense signal that attracts natural enemies of maize herbivores

Abstract ❷

Plants can defend themselves against herbivores by attracting natural enemies of the herbivores. The cues for attraction are often complex mixtures of herbivore-induced plant volatiles, making it difficult to demonstrate the role of specific compounds. After herbivory by lepidopteran larvae, maize releases a mixture of volatiles that is highly attractive to females of various parasitic wasp species. We identified the terpene synthase TPS10 that forms (E)-β-farnesene, (E)-α-bergamotene, and other herbivory-induced sesquiterpene hydrocarbons from the substrate farnesyl diphosphate. The corresponding gene is expressed in response to herbivore attack and is regulated at the transcript level. Overexpression of tps10 in Arabidopsis thaliana resulted in plants emitting high quantities of TPS10 sesquiterpene products identical to those released by maize. Using these transgenic Arabidopsis plants as odor sources in olfactometer assays showed that females of the parasitoid Cotesia marginiventris learn to exploit the TPS10 sesquiterpenes to locate their lepidopteran hosts after prior exposure to these volatiles in association with hosts. This dissection of the herbivore-induced volatile blend demonstrates that a single gene such as tps10 can be sufficient to mediate the indirect defense of maize against herbivore attack.

Reviews

council

maria

❸

Add →

← Remove

clara

julia

peter

Set Status ❹ ❺ ❻

approve

reject

review

Actions

❷ save and continue

❸ save

❹ cancel

Status ❿

Under Review

Authors ⓫

elias

Reviews ⓬

summary1.0

claraNone

julia1

peterNone