Research Management System Screenshots

Team 6: Ria Mukherji, Zareenah Murad, Serap Ogut, Claudia Pinkerton

Sprint 3

User Stories Fulfilled - Sprint 3

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- As a student or sponsor, I want to view trending research topics so that I can quickly find areas of current interest.
  - **Evidence:** Trends Button, Trends API, Trends List Display on Dashboard

- As a researcher, I want to showcase trending research fields so that students and sponsors stay informed about new opportunities.
  - **Evidence:** Trends Endpoint Integration with Frontend.

- As a user, I want to see a "Last Updated" timestamp when viewing trends so that I know how recent the information is.
  - **Evidence:** Timestamp shown after fetching trends on the Dashboard
- As a user I want to see a Graph showing when the last research entry was posted so I know how often people are posting research
  - **Evidence**: Graph shown after hitting trends button on Dashboard

Trends Functionality - Student/Researcher

— — —

Research Management System

Welcome to Your Dashboard

Name: Serap

Role: STUDENT

Add Listing

(Only Researchers Associated with the University can add listings)

View Listings | Trends

Research Management System

Welcome to Your Dashboard

Name: Serap

Role: STUDENT

Add Listing

(Only Researchers Associated with the University can add listings)

View Listings | Trends

Research Trends

AI Research

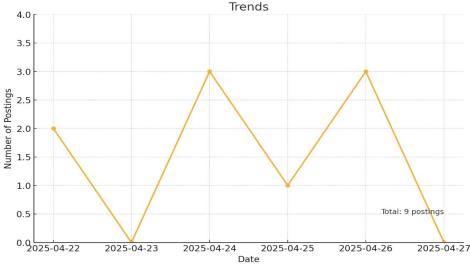Blockchain Innovations

Quantum Computing

Climate Change Solutions

Neuroscience Advances

Last Updated and Graph Functionality - Student/Researcher

Research Management System

Log Out

Trends

Research Trends

🕐 Last Updated: 4/28/2025, 6:13:37 PM

AI Research

Blockchain Innovations

Quantum Computing

Climate Change Solutions

Neuroscience Advances

Sprint 2

User Stories Fulfilled: Sprint 2

- *As a researcher, I want to publish my research expertise.*
  → Evidenced by "Research Listings", "Research Entries", and "Research Entries Database View"

- *As a student/sponsor, I want to search and sort research opportunities by keywords, date, or filters.*
  → Evidenced by "Sorting Research Opportunities - Search Bar", "Sorting by Date", and "Checkboxes"

- *As a student/sponsor, I want to see a list of research expertise.*
  → Evidenced by "Research Entries" and "Homepage Functionality – Non-Researcher"

- *As a student/sponsor, I want to contact professors directly from the platform.*
  → Evidenced by "Contact Researchers Button: Auto-Draft Email Functionality"

- *As a researcher, I want to be able to edit or update my postings.*
  → Implied from editable database structure (not explicitly shown)

- *As a student, I want to find professors doing research that interests me.*
  → Evidenced by "Homepage Functionality – Non-Researcher" and filtering options

Homepage Functionality - Researcher

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Research Management System

Login	Register

Login

r@gmail.com

•••

Login

Welcome Ria M! (RESEARCHER)

Go To Homepage

Research Management System

Log Out

Welcome to Your Dashboard

Name: Ria M

Role: RESEARCHER

Add Listing   View Listings   Trends

Homepage Functionality - Non-Researcher

Research Management System

Log Out

Welcome to Your Dashboard

Name: Claudia P

Role: STUDENT

Add Listing

(Only Researchers Associated with the University can add listings)

View Listings   Trends

Research Entries

— — —

Research Management System

Welcome to Your Dashboard

Name: Ria M

Role: RESEARCHER

[Add Listing] [View Listings] [Trends]

[Log Out]

Add Research Listing

Project Name:

Effects of Jumping Up and Down on Hight

Description:

Funded by the Society of Temporary Altitude and approved by the National Bureau of Momentary Metrics, this study used high-speed cameras, laser measurements, and several enthusiastic pogo sticks to confirm that humans do, in fact, achieve a temporary increase in height while airborne. Policy recommendations include updating driver's license height fields to include "jumping height" for accuracy.

Start Date:

01/01/2025

☑ Needs Students

☐ Needs Sponsors

[Submit]   [Cancel]

Research Entries Database View

— — —

Add Research Listing

Project Name:

Effects of Jumping Up and Down on Hight

```
27
28 ✓  SELECT * FROM research_listings
29      💡
30
```

@localhost 1 of 6
db_project
Server Objects

Output   swesprint.research_listings ✕

5 rows

CSV

listing_id	user_id	project_name	description	start_date	need…
1	1	Effects of Jumping Up and Down on Hight	Funded by the Society of Temporary Altitude and appr…	2025-01-01	
2	1	If You Close Your Eyes, Can You Still See?	This double-blind (literally) study, supported by th…	2025-04-05	
3	2	Does Holding Your Breath Make You Invisible?	In a federally-funded pilot experiment run in collab…	2025-04-19	
4	2	Does the Sun Go Away at Night?	With over $1.2 million in telescope rentals, the Sol…	2025-04-17	
5	1	Does playing the Bassoon make you more attractive?	No. The answer is no - but we might as well test it …	2025-04-01	

Users Database View


```
14 ✓  SELECT * FROM users;
15
```

| | Output | ⊞ swesprint.users ✕ |

	id	email	name	password	role
1	1	r@gmail.com	Ria M	123	RESEARCHER
2	2	z@gmail.com	Zareenah M	123	RESEARCHER
3	3	s@gmail.com	Serap O	123	SPONSOR
4	4	c@gmail.com	Claudia P	123	STUDENT
5	5	bigbird@sesamestreet.com	Big Bird	123	RESEARCHER

Server Objects

5 rows

Tx: Auto   DDL

Research Listings

— — —

Welcome to Your Dashboard

Name: Serap O

Role: SPONSOR

Add Listing

(Only Researchers Associated with the University can add listings)

View Listings   Trends

Research Management System

Research Listings

☐
Sort by Date
☐
Show Needs Students
☐
Show Needs Sponsors

Search by title, description, or listing ID...

Effects of Jumping Up and Down on Hight

Description: Funded by the Society of Temporary Altitude and approved by the National Bureau of Momentary Metrics, this study used high-speed cameras, laser measurements, and several enthusiastic pogo sticks to confirm that humans do, in fact, achieve a temporary increase in height while airborne. Policy recommendations include updating driver's license height fields to include "jumping height" for accuracy.

Start Date: 2025-01-01

Needs Students: Yes

Needs Sponsors: No

Research ID: 1

Principal Investigator: Ria M

Contact Researcher

If You Close Your Eyes, Can You Still See?

Description: This double-blind (literally) study, supported by the Optical Obviousness Alliance, involved 120 volunteers sitting quietly in a room with their eyes closed. After extensive peer-reviewed napping, results indicated a significant decrease in visual input. The research team is now seeking funding for Phase II: "Can You Hear Less When You Cover Your Ears?"

Start Date: 2025-04-05

Needs Students: No

Sorting Research Opportunities - Search Bar: ID, keywords

4

Does the Sun Go Away at Night?

Description: With over $1.2 million in telescope rentals, the Solar Disappearance Task Force confirmed that the sun does, in fact, leave at night and returns in the morning "like some continue.

Start Date: 2025-04-17

Needs Students: Yes

Needs Sponsors: No

Research ID: 4

Principal Investigator: Zareena

Contact Researcher

bassoon

Does playing the Bassoon make you more attractive?

Description: No. The answer is no - but we might as well test it and we have a budget of 8 million dollars.

Start Date: 2025-04-01

Needs Students: No

Needs Sponsors: No

Research ID: 5

Principal Investigator: Ria M

Contact Researcher

optical

If You Close Your Eyes, Can You Still See?

Description: This double-blind (literally) study, supported by the Optical Obviousness Alliance, involved 120 volunteers sitting quietly in a room with their eyes closed. After extensive peer-reviewed na input. The research team is now seeking funding for Phase II: "Can You Hear Less When You Cover Your Ears?"

Start Date: 2025-04-05

Needs Students: No

Needs Sponsors: Yes

Research ID: 2

Principal Investigator: Ria M

Contact Researcher

Close

Sorting Research Opportunities- Date

_ _ _

Welcome to Your Dashboard

Research Listings

☑

Sort by Date

☐

Show Needs Students

☐

Show Needs Sponsors

mm / dd / yyyy

Search by title, description, or listing ID...

Effects of Jumping Up and Down on Hight

Description: Funded by the Society of Temporary Altitude and approved by the National Bureau of Momentary Metrics, this study used high-speed cameras, laser measurements, and several enthusiastic pogo sticks to confirm that humans do, in fact, achieve a temporary increase in height while airborne. Policy recommendations include updating driver's license height fields to include "jumping height" for accuracy.
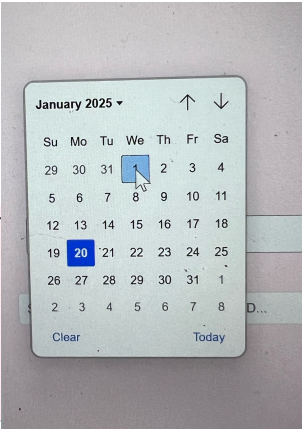
Start Date: 2025-01-01

Needs Students: Yes

Needs Sponsors: No

Research ID: 1

Principal Investigator: Ria M

Contact Researcher

Close

Sorting Research Opportunities - Checkboxes

— — —

☑
Show Needs Sponsors

Search by title, description, or listing ID...

If You Close Your Eyes, Can You Still See?

Description: This double-blind (literally) study, supported by the Optical Obviousness Alliance, involved 120 volunteers sitting quietly in a room with their eyes closed. After extensive peer-reviewed napping, results indicated a significant decrease in visual input. The research team is now seeking funding for Phase II: "Can You Hear Less When You Cover Your Ears?"

Start Date: 2025-04-05

Needs Students: No

Needs Sponsors: Yes

Research ID: 2

Principal Investigator: Ria M

Contact Researcher

Does Holding Your Breath Make You Invisible?

Description: In a federally-funded pilot experiment run in collaboration with the Department of Perceptual Manipulation, 15 participants attempted to disappear by holding their breath near various observers, including one raccoon and a mall security guard. Despite high effort and several passed-out subjects, full invisibility was not observed. The control group, who simply yelled "you can't see me," reported slightly higher success rates.

Start Date: 2025-04-19

Needs Students: No

Needs Sponsors: Yes

Research ID: 3

Principal Investigator: Zareenah M

Contact Researcher

Contact Researchers Button: Auto-Draft Email Functionality

Research ID: 3

Principal Investigator: Zareenah M

Contact Researcher

Close

▷ Send | ▾ | From: rmukherji@mail.smu.edu ▾

To | Z@gmail.com

Cc |

Research Inquiry: Does Holding Your Breath Make You Invisible

Ria Mukherji
Computer Science (AI/ML) B.S. & Data Science B.S.
English Minor
University Honors Program
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SMU

Sprint 1

User Stories Fulfilled: Sprint 1

- *As a user, I want to register and log in securely.*
  → Evidenced by the "Registration and Login" screenshot

- *As a user, I want the system to be secure and limited to SMU users.*
  → Evidenced by the "Safety Parameters" and "Safety Parameters Continued" screenshots

- *As a researcher, I want a database to store my research expertise.*
  → Evidenced by the "Database View" screenshot (initial structure implemented)

Registration and Login

— — —

Research Management System

Login   Register

Create Account

Big Bird

bigbird@sesamestreet.com

...

...

Researcher ⌄

Register

Registration successful!

Research Management System

Login   Register

Login

bigbird@sesamestreet.com

...

Login

Welcome Big Bird! (RESEARCHER)

Safety Parameters

Research Management System

Login   Register

Login

bigbird@sesamestreet.com

...

Login

Invalid password

Create Account

Elmo

elmos

⚠ Please include an '@' in the email address. 'elmos' is missing an '@'

...

Student ⌄

Register

Safety Parameters Continued

— — —

Research Management System

Login	Register

Create Account

Elmo

elmo@elmo.com

...

...

Student

Register

Passwords do not match!

Database View

```
12
13    DESCRIBE users;
14 ✓  SELECT * FROM users;
15
```

Services

- Database
  - @localhost
    - console
      - console
    - console_1
      - console_1
  - swesprint@localhost
    - console 197 ms
      - console 197 ms

Output   swesprint.users ✕

Tx: Auto   DDL

id	email	name	password	role
1	r@gmail.com	Ria M	123	RESEARCHER
2	z@gmail.com	Zareenah M	123	RESEARCHER
3	s@gmail.com	Serap O	123	SPONSOR
4	c@gmail.com	Claudia P	123	STUDENT
5	bigbird@sesamestreet.com	Big Bird	123	RESEARCHER

5 rows