

Green Energy Shifting App

Members:

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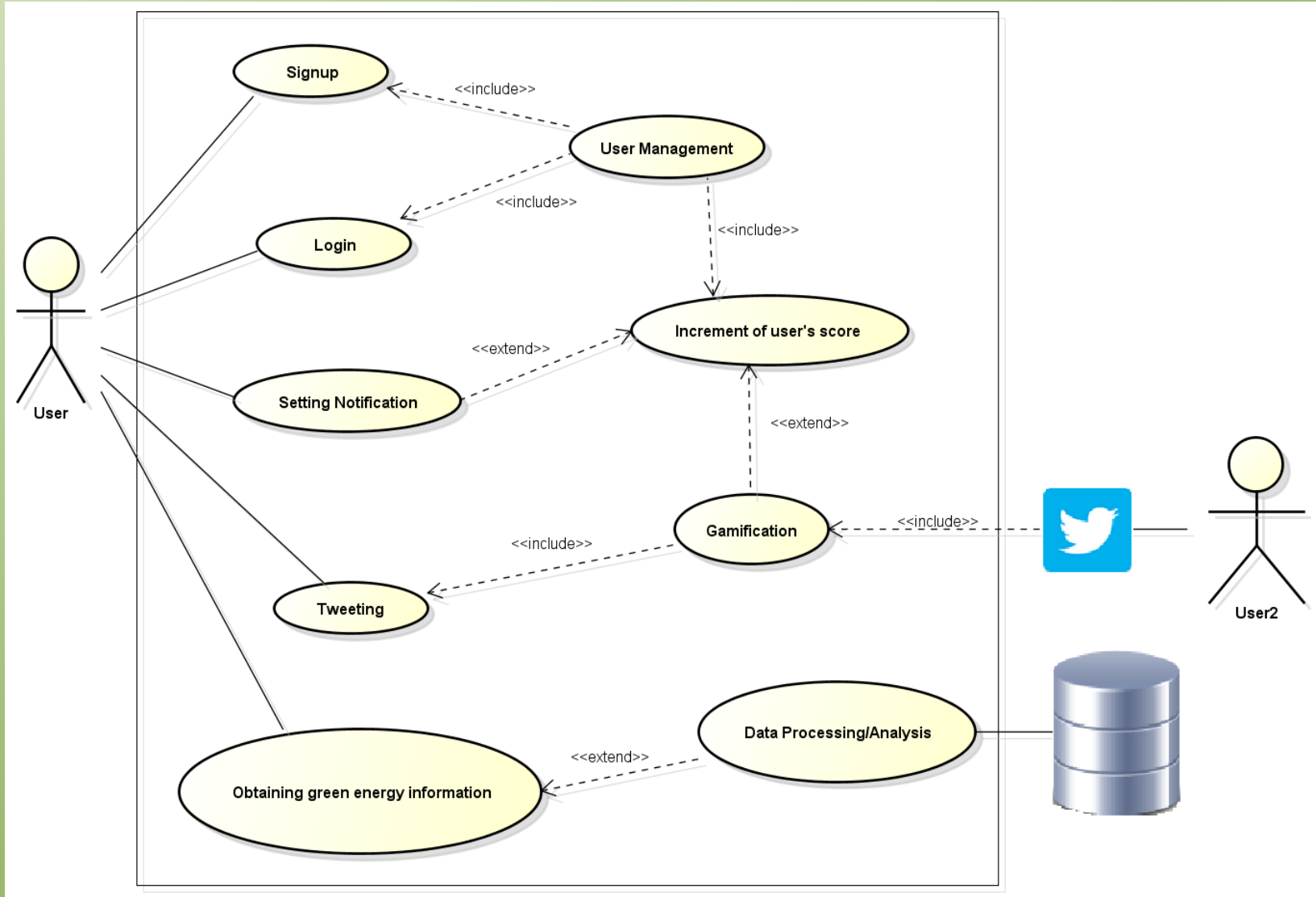
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Introduction

- What is the goal of this application?
- How is it useful? Who benefits from this application?

System Overview



Data

- User - data retrieved from user for identification
- Hourly ex-ante and ex-post test-data from May 15th 2012, since we could not access real live-data
- Retrieved from “*Transparency Data Interface Specification*” by “*EEX Information Products*”

SQL-Befehl:

```
SELECT *  
FROM 'energydata'  
LIMIT 0, 30
```

ID	timehour	solar	wind	conventional	total	percentage
1	00:00:00	0	301.8	5537.2	5839	5.17
2	01:00:00	0	267.1	5551.9	5819	4.59
3	02:00:00	0	174.8	5885.2	6060	2.88
4	03:00:00	0	92.8	5943.2	6036	1.54
5	04:00:00	0	182.1	5867.9	6050	3.01
6	05:00:00	0.2	228.8	5869	6098	3.76
7	06:00:00	0.4	245.2	5884.4	6130	4.00

SQL-Befehl:

```
SELECT *  
FROM 'ge_login'  
LIMIT 0, 30
```

ID	username	password	score
6	nika	836e7ec46c6210268a153f90bd060f8af0b9fb41	1714
7	sarvy	7c4a8d09ca3762af61e59520943dc26494f8941b	0
8	mah	8cb2237d0679ca88db6464eac60da96345513964	0
9	mahi	8cb2237d0679ca88db6464eac60da96345513964	0
11	theresa	66c02d06bd545f9d3b10dad8de3bcb9c78b7645d	14
12	sarvenaz	7c4a8d09ca3762af61e59520943dc26494f8941b	4
13	mahnazzz	7bbd2454b50b59bf28ab33c9e60a37caabaf852c	0
15	mahnazioon	8cb2237d0679ca88db6464eac60da96345513964	10

Testing

- Unit Testing:
 - Increase the stability and quality of an application
 - Reduce testing costs
- Integration Testing:
 - Verifying that individual application components work together as expected by the user

Documentation

- Technical Documentation
 - Software Architecture
 - Data Structure
 - Web Services (PHP)
 - Testing
- Javadoc
 - Precise description of each class in the Android project
- User Manual
 - Overview
 - Requirements
 - Using the System

Challenges

- Unable to access the server from outside the university network
 - Web services and data are on a private web server
- Unable to acquire real live-data

Demo