



# Innopolis Library Media Keeper

Delivery 4

25.04.2018

Introduction to programming II

# Delivery tasks

## D1

- ☒ Implement **Users** and **Documents** cards;
- ☒ Implement **Booking** system.

## D3

- ☒ Implement **Fine** and **Renew** subsystems;
- ☒ Implement **Queues**.

## D2

- ☒ Implement actions with cards (modify, delete, add);
- ☒ Implement **Return** system;
- ☒ Implement Storage System;

## D4

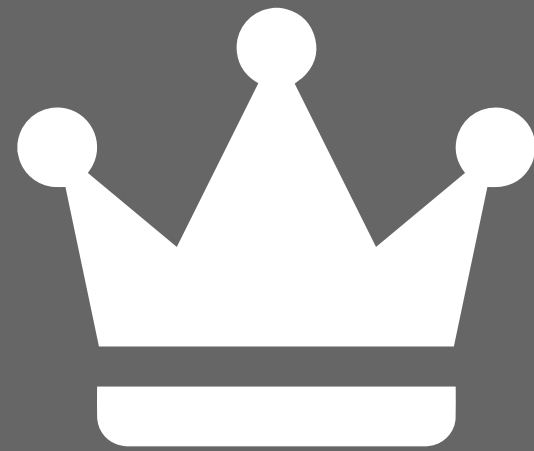
- ☐ Implement **Search engine**;
- ☐ Implement **Admin**;
- ☐ Implement **Logs**.

# Goals for this delivery:

☐ Implement Search engine;



☐ Implement Admin;



☐ Implement Logs;



# Search system

Now Users can search for medias they want, not scroll through all the medias. Search supports search by Title, Authors, Keywords, Publisher and Type

What do you want to search by?

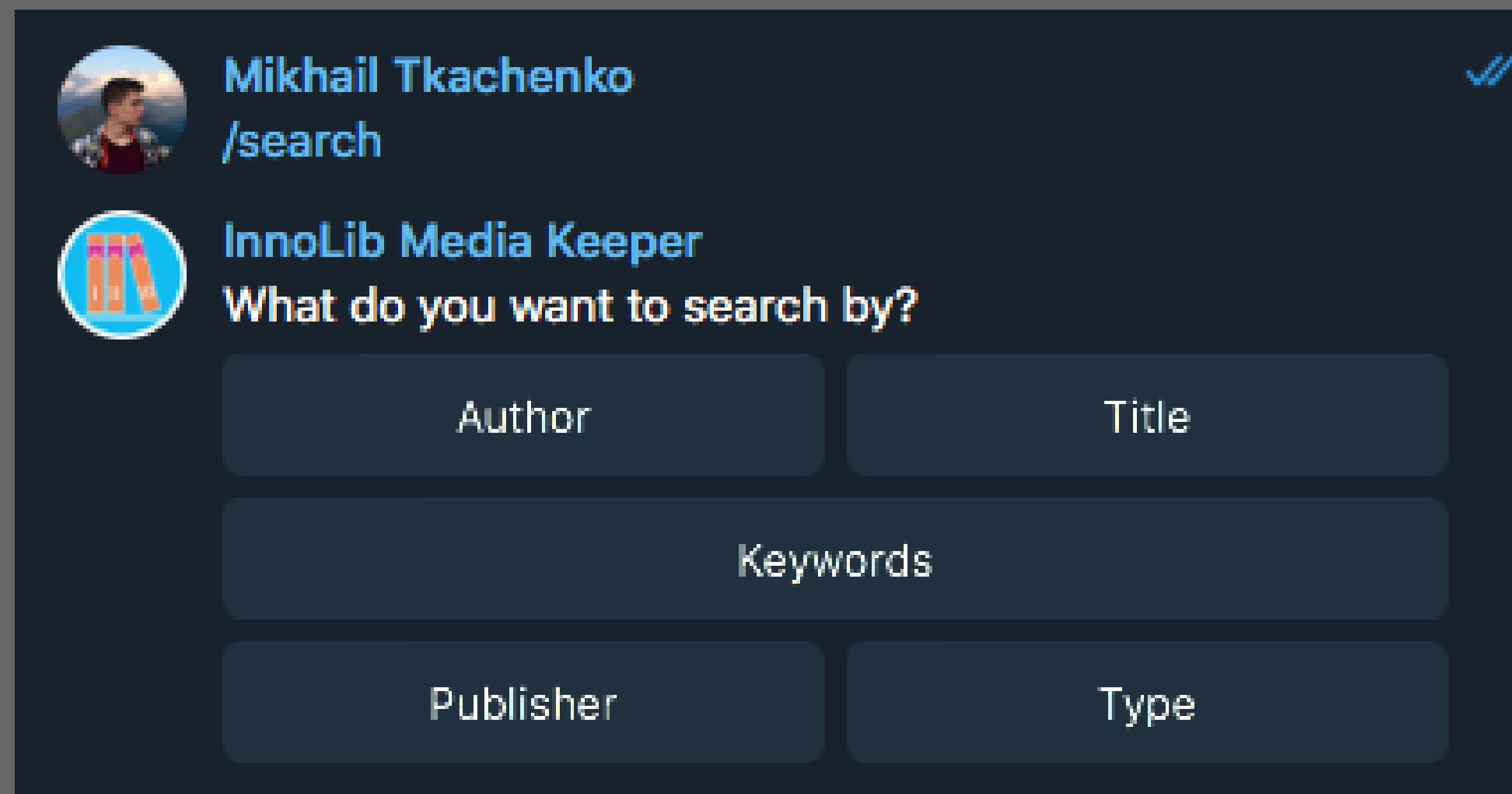
Author

Title

Keywords

Publisher

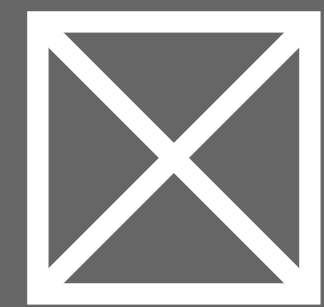
Type



—— User calls */search* command

—— Bot asks User how to search

# Goals for this delivery:



Implement Search engine;



Implement Admin;



Implement Logs;



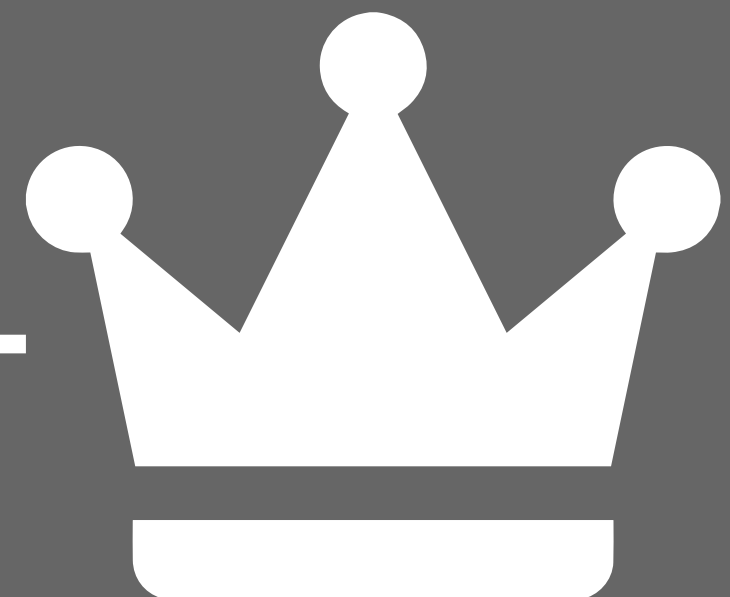
# Admin & Librarians

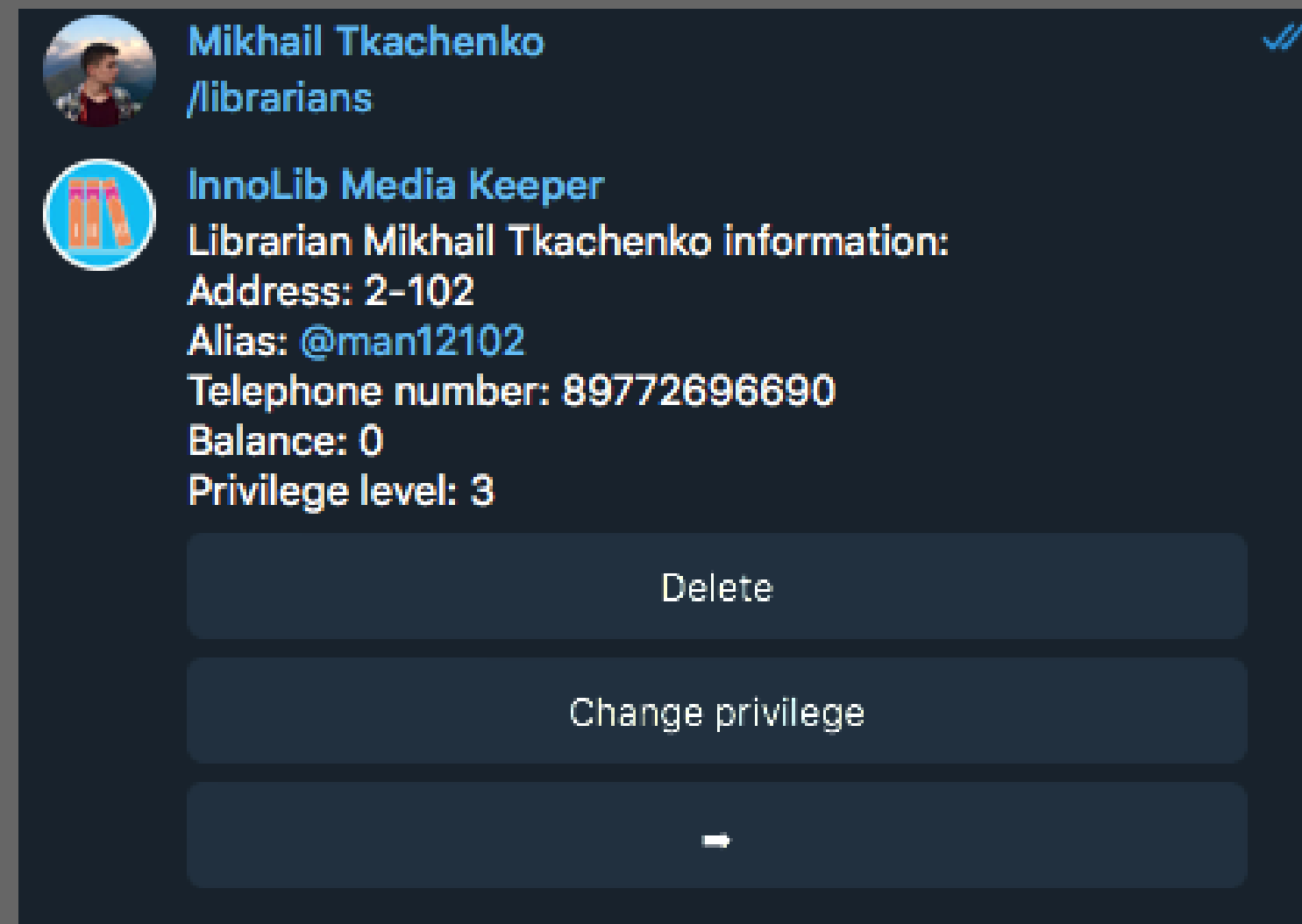
This delivery introduces Admin, the Owner of Library. ADmin can manage Librarians and change their priviledges

<i>Priv 1:</i>	view + edit medias/users;
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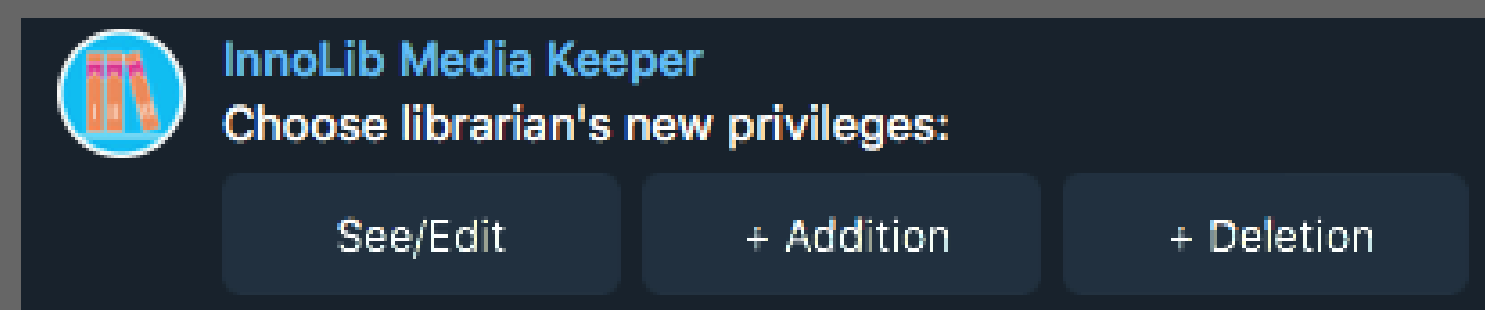
<i>Priv 2:</i>	Priv 1 + add medias/users;
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<i>Priv 3:</i>	Priv 2 + delete medias/users;
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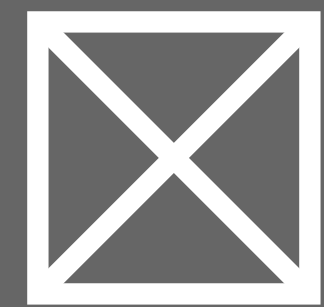
Admin calls */librarians*  
command to view all librarians  
and info about them



Admin can change Librarians'  
priviledges



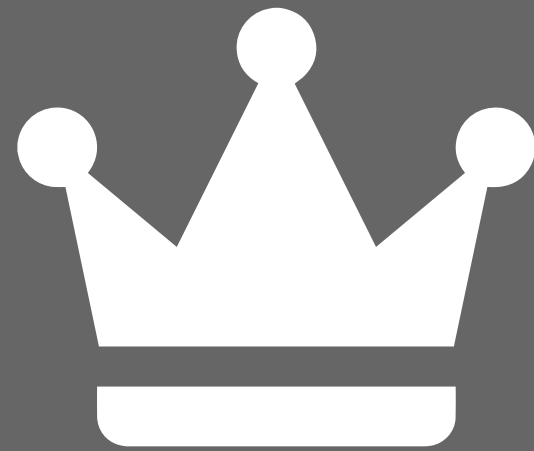
# Goals for this delivery:



Implement Search engine;



Implement Admin;



Implement Logs;



# Logs

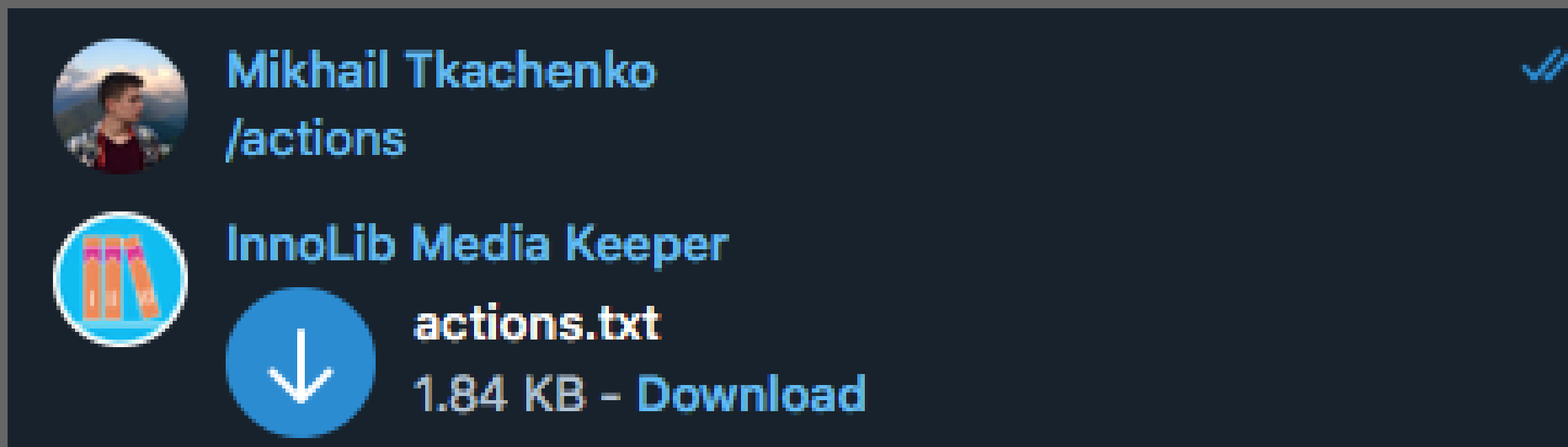
/actions

All actions inside Library are now saved into Log. If Librarian wants to get it, they just need to send /actions command.



23 Apr 2018 | Admin 1 has added librarian #1  
23 Apr 2018 | Admin 1 has added librarian #2  
23 Apr 2018 | Admin 1 has added librarian #3  
23 Apr 2018 | Librarian#2 has added media #1

...

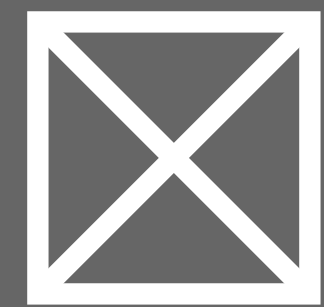


- Librarian asked for actions list
- Bot sends a file with compilation of all actions happened during work.

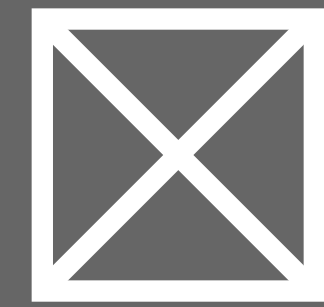
```
24 Apr 2018 | Admin 1 has added librarian #1011
24 Apr 2018 | Admin 1 has added librarian #1110
24 Apr 2018 | Admin 1 has added librarian #1100
24 Apr 2018 | Admin 1 has added librarian #324148065
24 Apr 2018 | 56069837 has deleted rights for librarian #1011
24 Apr 2018 | 56069837 has deleted rights for librarian #1110
24 Apr 2018 | 56069837 has deleted rights for librarian #1100
24 Apr 2018 | User#56069837 has booked media #1-1
24 Apr 2018 | 56069837 tried to book already taken media #1
24 Apr 2018 | 56069837 has placed a return request for media #1-1
24 Apr 2018 | User#239514818 has booked media #2-1
24 Apr 2018 | 239514818 has placed a return request for media #2-1
24 Apr 2018 | 56069837 has deleted user #239514818
24 Apr 2018 | 56069837 approved registry request for239514818
```

- Example of actions.txt

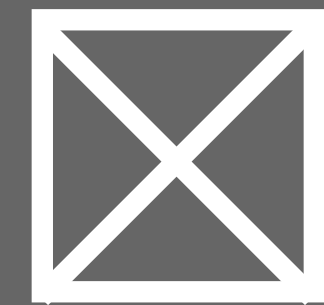
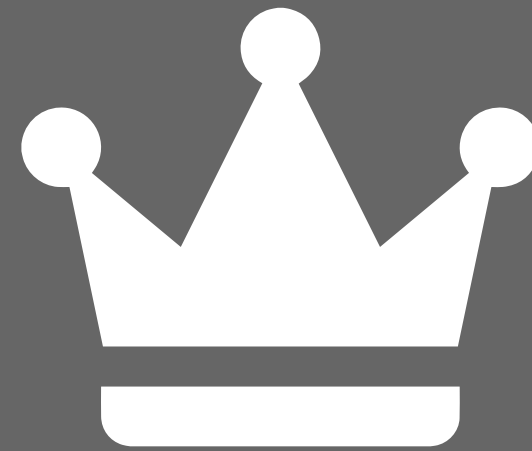
# Goals for this delivery:



Implement Search engine;

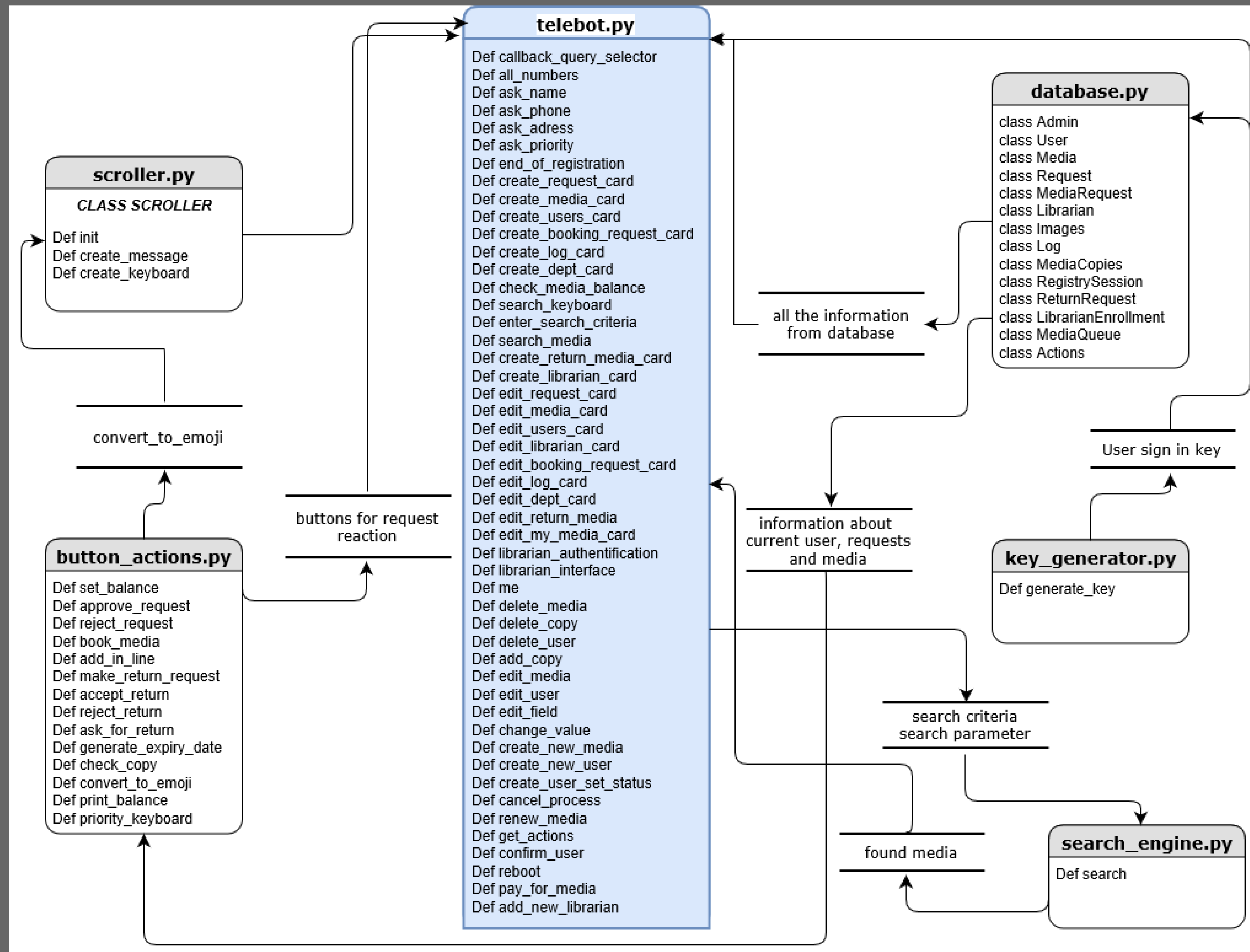


Implement Admin;



Implement Logs;





# Tests

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All tests are successfully passed. Understandable code - easy tests.



**Passed tests:**  
All

# The end?

Innopolis University Media Keeper, Spring 2018 semester