**Scientific report generator**

Main objective of this system is to simplify report generation for employees of Ivan Franko National University of Lviv. System provides easy way of adding information about scientific work during report period.

**Roles:** teacher, head of department, dean, super user.

**Teacher:** can add personal data, data about scientific work, generate individual reports, create publication and mark scientific work themes, he worked on.

**Head of department:** edits data of his department’s users, i.e. approving them, sets position and modifies their information. Head of department can register and update themes for scientific work, generate and edit teacher and department reports, create and modify publications and mark themes, he participated in.

**Dean:** can approve users, can edit their roles and other information of his faculty’s teachers, can generate and modify faculty reports.

**Super user:** can edit all users’ information including approves new user’s accounts and updating users’ roles.

**Subsystems**

**User Management**

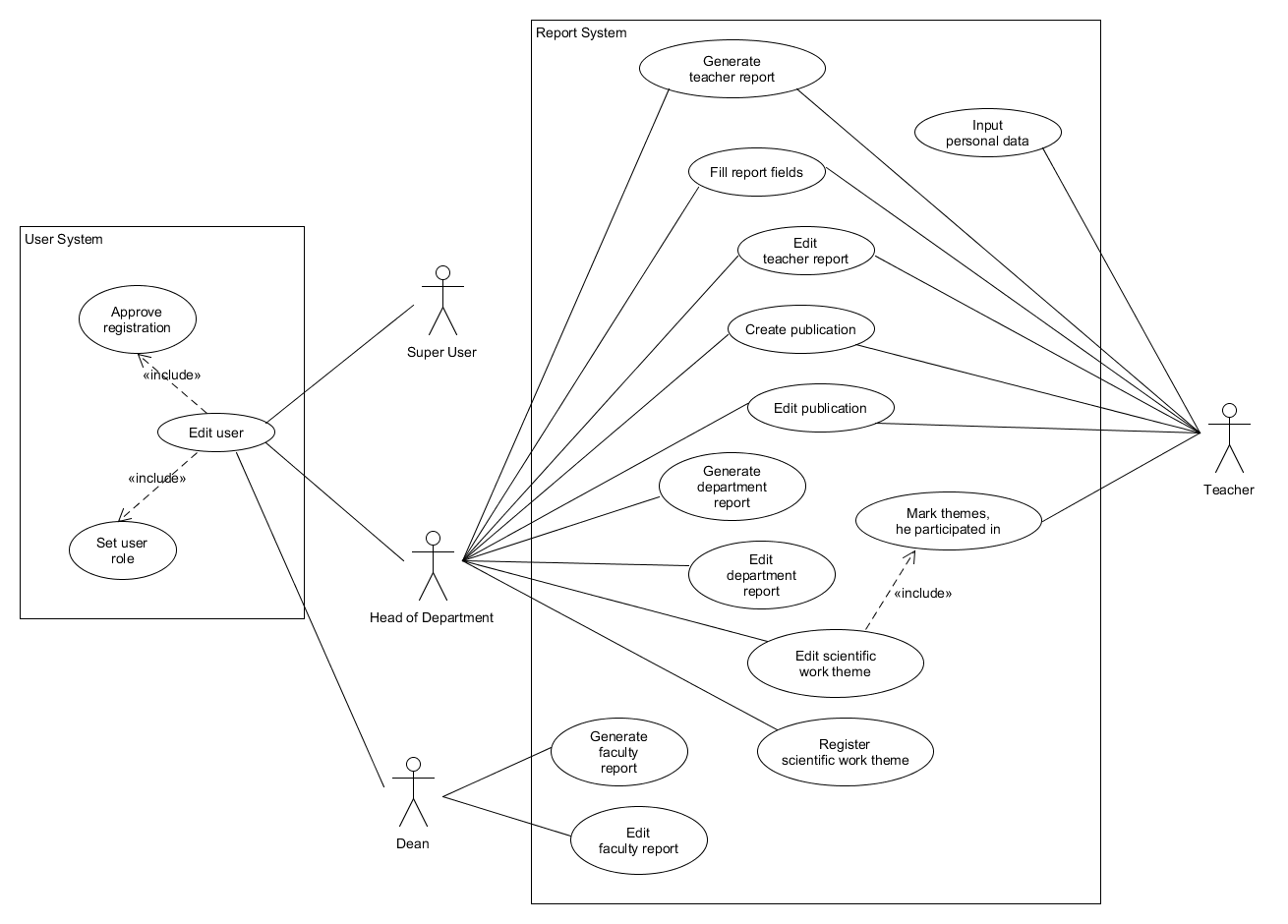
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| **#** | **Including Use Case** | **Use Case** | **Role** | **Description** | **Action Method** |
| 1 | ― | Edit user | Super user | Super user can edit information of any user. |  |
| 2 | Edit user | Approve user registration | Super user | Super user can edit the position of any user. |  |
| 3 | Set user role | Super user | Super user can approve any registered user. |  |
| 4 | ― | Edit user | Dean | Dean can edit information of his faculty’s users. |  |
| 5 | Edit user | Approve user registration | Dean | Dean can edit the user’s position of his faculty. |  |
| 6 | Set user role | Dean | Dean can approve registered user of his faculty. |  |
| 7 | ― | Edit user | Head of Department | Head of department can edit information of his department’s users. |  |
| 8 | Edit user | Approve user registration | Head of Department | Head of department can edit the user’s position of his department. |  |
| 9 | Set user role | Head of Department | Head of department can approve registered user of his department. |  |

**Report Management**

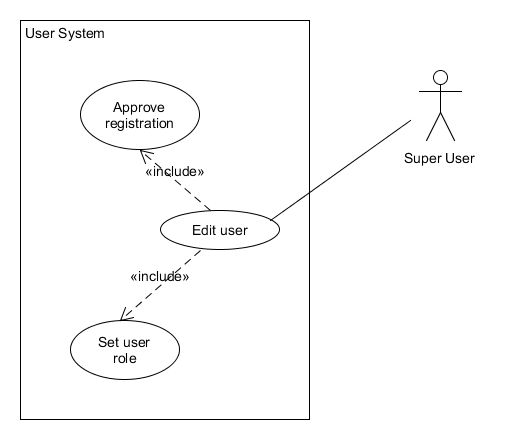
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| **#** | **Including Use Case** | **Use Case** | **Role** | **Description** | **Action Method** |
| 1 | ― | Generate faculty report | Dean | Dean can generate report of his faculty. |  |
| 2 | ― | Edit faculty report | Dean | Dean can edit data of created faculty report. |  |
| 3 | ― | Generate teacher report | Head of department | Head of department can generate personal report of his work during the year. |  |
| 4 | ― | Fill report fields | Head of department | Head of department can fill additional fields according to his personal report. |  |
| 5 | ― | Edit teacher report | Head of department | Head of department can edit information of his personal report. |  |
| 6 | ― | Create publication | Head of department | Head of department can create some publications as single or co-author. |  |
| 7 | ― | Edit publication | Head of department | Head of department can change data of created publications. |  |
| 8 | ― | Generate department report | Head of department | Head of department can create report of his department based on teachers’ reports. |  |
| 9 | ― | Edit department report | Head of department | Head of department can edit his department’s report. |  |
| 10 | ― | Register scientific work theme | Head of department | Head of department can create scientific works themes of his department. |  |
| 11 | ― | Edit scientific work theme | Head of department | Head of department can edit information of scientific works themes of his department. |  |
| 12 | Edit scientific work theme | Mark themes, he participated in | Head of department | Head of department can mark existent themes, he worked on. |  |
| 13 | ― | Generate teacher report | Teacher | Teacher can generate personal report of his work during the year. |  |
| 14 | ― | Fill report fields | Teacher | Teacher can fill additional fields according to his personal report. |  |
| 15 | ― | Edit teacher report | Teacher | Teacher can edit information of his personal report. |  |
| 16 | ― | Create publication | Teacher | Teacher can create some publications as single or co-author. |  |
| 17 | ― | Edit publication | Teacher | Teacher can change data of created publications. |  |
| 18 | Edit scientific work theme | Mark themes, he participated in | Teacher | Teacher can mark existent themes, he worked on. |  |

**Diagrams**

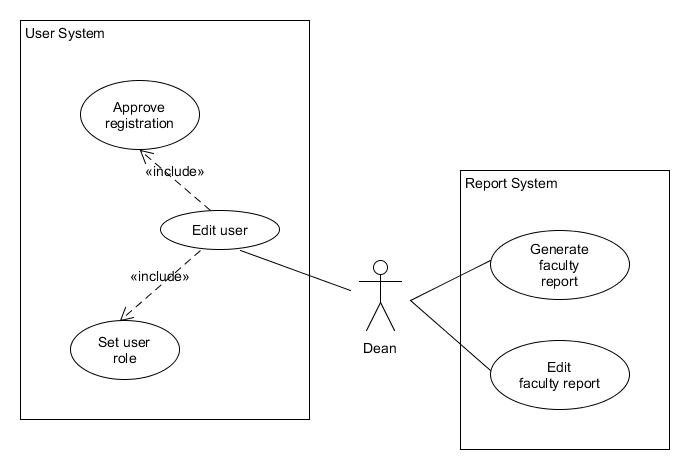
General use case diagram



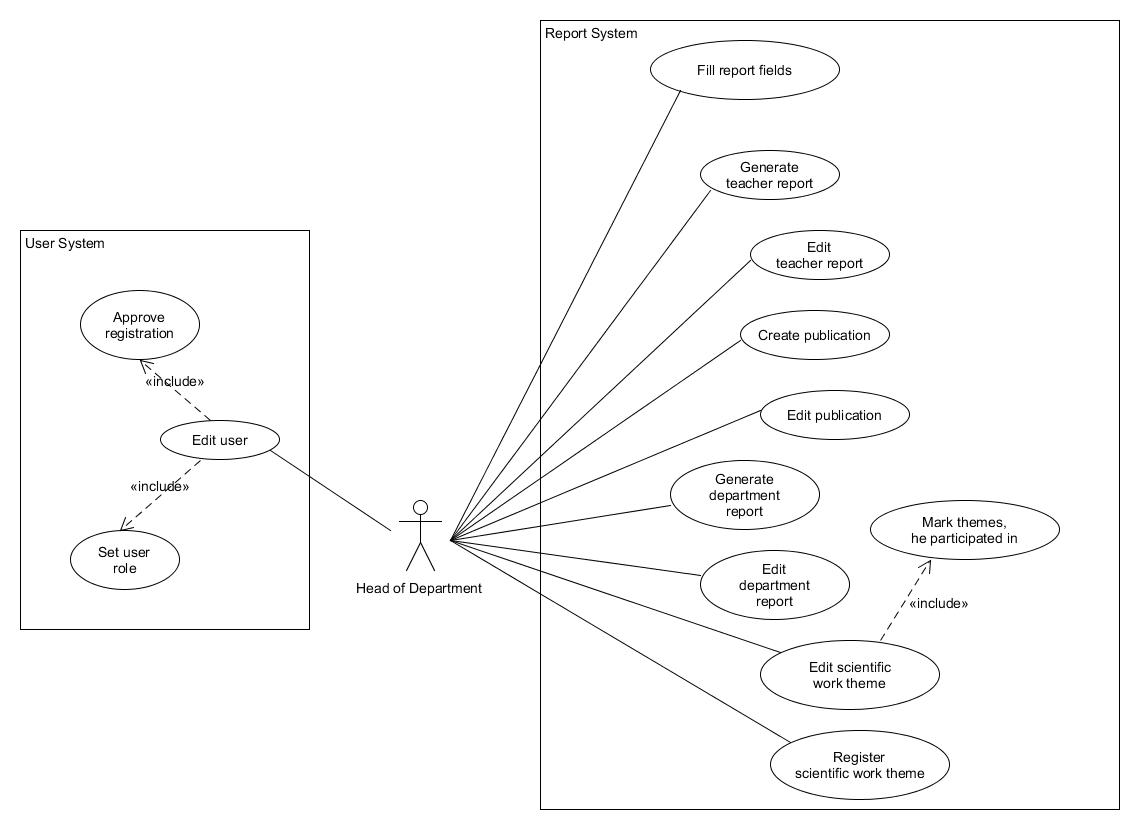
Use case for Super User role



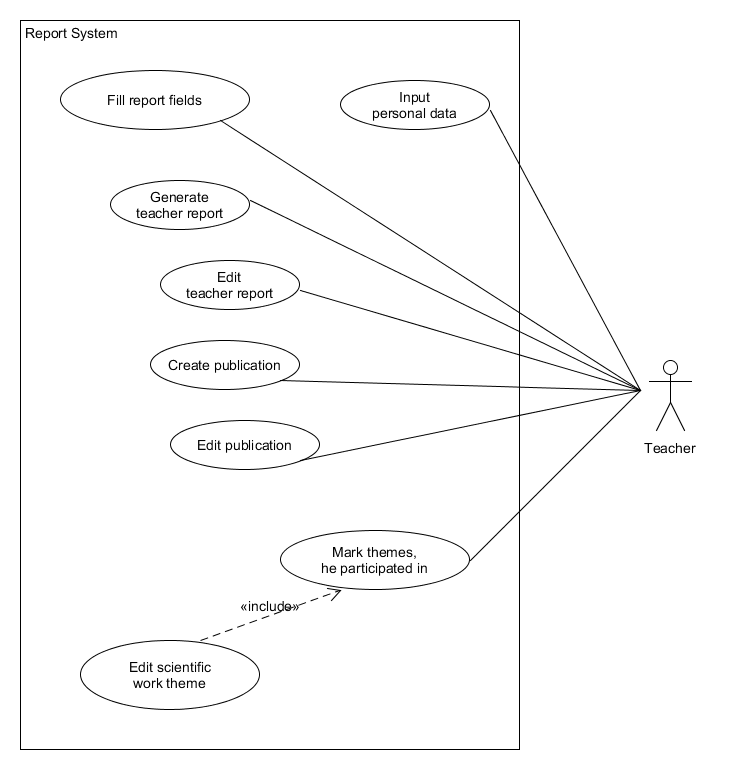
Use case for Dean role



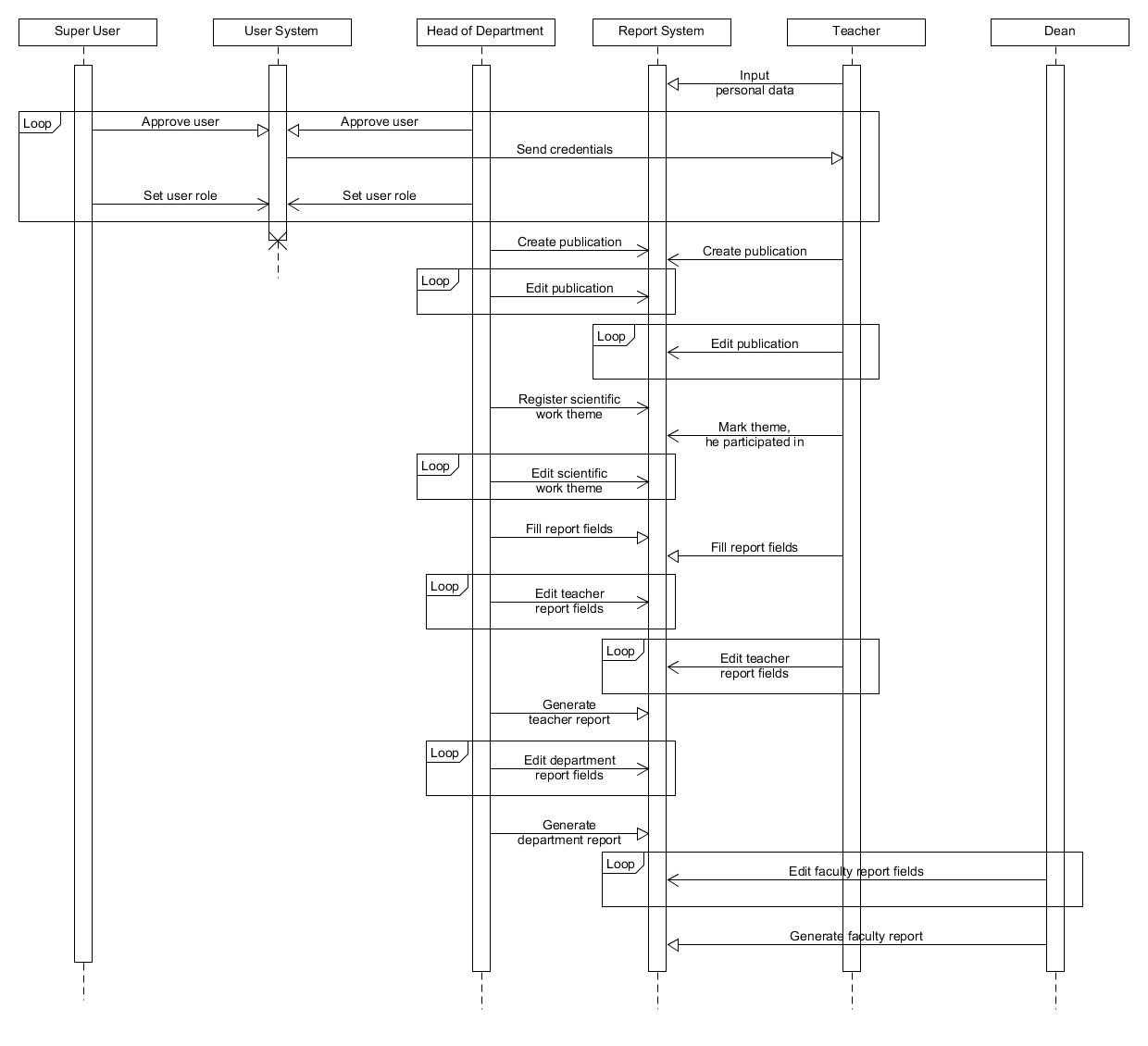
Use case for Head of Department role



Use case for Teacher role



Sequence diagram



Class diagram

