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| UC 03 | Enter a lecturer [R101] | | |
| Scope | PC with local network at the institute | | |
| System boundary | Hardware, network and server already exist | | |
| Level | Subfunction | | |
| Primary actor | Secretary, administration of the institute | | |
| Stakeholder and interests | Secretary | Reduce effort and use of paper | |
| | Lecturer | Comfortable overview of own lectures | |
| | Institute | Electronic administration of lecturers | |
| Preconditions | User with read and write permission is signed in. The system is ready to capture data sets. [R601] | | |
| Guarantee | The client system will not be affected. A consistent state of the database will be guaranteed. [R602] | | |
| Case of success | System saves the entered data of a lecturer in the database- | | |
| Trigger | User selects the function "Enter a lecturer" | | |
| Main success scenario | 1 | User selects the function "Enter a lecturer" | |
| | 2 | System shows a window for entering the data | |
| | 3 | User enters the data [R107],[R107.1], [R108] | |
| | 4 | User selects the function "Save" | |
| | 5 | System saves the data [R401] | |
| | 6 | System shows a confirmation message | |
| Extensions | 4a | IF the entered data is incomplete THAN the system shows an error message [R107], [R502] | |
| | 4b | IF the lecturer is already in the database THAN the system shows a selection dialog | |
| | 4b.1 | 4b.1 | IF the user selects "Replace data", THAN the system overrides the old data (5) |
| | | 4b.2 | IF the user selects "Edit data", THAN the system switches to <u>Edit a lecturer</u> [R103] |
| | | 4b.3 | IF the user selects "Cancel", THAN the system aborts the process (2) |
| | 5a | IF the server is not available THAN the system shows an error message and tries to create a new connection | |
| Technology | None | | |

| ID | Requirements |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Functional requirements | |
| R101 | The system shall provide the user with the ability to enter a lecturer. |
| R102 | The system shall provide the user with the ability to delete a lecturer. |
| R102.1 | A lecturer can only be deleted if he is not assigned to any lecture. |
| R103 | The system shall provide the user with the ability to edit a lecturer. |
| R104 | If the system requires data from the database, the system shall request the actual data from the server. |
| R104.1 | All requested data from the server is encoded and the system shall decode the data. |
| R105 | The system shall provide the user with the ability to search for a lecturer by surname, forename, or phone number. |
| R106 | The system shall provide the user the ability to create all lectures that a assigned to one lecturer. |
| R107 | The data set of one lecturer shall at least consist of surname, forename, and gender. |
| R107.1 | The data set of one lecturer should contain additionally the degree, address, email address, phone number, consultation-hour, and room. |
| R108 | The data element gender has the characteristic f for female or m for male. |
| Technical requirements | |
| R201 | The system shall be developed by using the programming language Java. |
| R202 | The database system shall use MySQL Version 5.1. |
| R203 | The interface between Java and MySQL shall be JDBC. |
| Portability | |
| R301 | The system shall be compatible with the current Windows versions. |
| Efficiency | |
| R401 | A request resulting from a function call by a user, shall deliver the results within 5 seconds. |
| Usability | |
| R501 | The graphical user interface shall be clear and easy-to-learn to facilitate the work of novice users. |
| R502 | In case of erroneous inputs, the system shall provide a message with a description of the error. Such errors shall not crash the system. |
| R503 | The user shall be able to find and edit the relevant information fast and easy. |
| R504 | The navigation shall be clear and comprehensible so that the typical workflows are supported. |
| Integrity | |
| R601 | The system shall require a login with user name and password to ensure that only authorized user access the data. |
| R602 | The database shall be consistent all time. |