**Workflow = Job = Application = Fieldwork:**

**(1). Database TABLES**

**1.1 List of (Editable) Tables:**

|  |  |  |
| --- | --- | --- |
| **userRole\_T** | (\*) |  |
| userRole\_id | userRole\_title | userRole\_info |
| 1 | Admin | Person with highest access rights |
| 2 | Career Center | … |
| 3 | Dean |  |
| 4 | Chair |  |
| 5 | Faculty |  |
| 6 | Advisor |  |
| 7 | Supervisor |  |
| 8 | Secretary |  |
| 9 | Student |  |

INSERT INTO `f20\_user\_role\_table` (`URID`, `user\_role\_title`, `user\_role\_info`) VALUES ('1', 'Administrator', 'Highest access rights.'), ('2', 'Career Resource Center', 'College faculty belonging to the career resource center.'), ('3', 'Records and Registration', 'College faculty belonging to the record and registration office.'), ('4', 'Dean', 'Active deans of the college.'), ('5', 'Chair', 'Active Department Chair.'), ('6', 'Secretary', 'Active Department Secretary.'), ('7', 'Faculty', 'Advisors, Instructors, or other faculty.'), ('8', 'Student', 'Any college student.'), ('9', 'Supervisor', 'Employer or Supervisor not related to the college.');

|  |  |  |
| --- | --- | --- |
| **userStatus\_T** | (\*) |  |
| userStatus\_id | userStatus\_title | userStatus\_info |
| 1 | Active | for users who are registered, approved, and can function in the system |
| 2 | Passive | for users who are registered, but not approved yet, or put on paused |
| 3 | Terminated | for users who are registered but no longer in the system |
| 4 | Level\_1 | Extra status in case we need it (once added new description will be here) |
| 5 | Level\_2 | Extra status in case we need it (once added new description will be here) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **user\_T** | (\*) |  |  |  |  |  |  |
| user\_id | userRole\_id | user\_loginName | user\_pass | user\_fullName | user\_email | user\_info | userStatus\_id |
| 001 | 1 | u0 | p0 | n0 | e0 | i0 | 1 |
| 002 | 2 | u1 | p1 | n1 | e1 | i1 | 1 |
| 003 | 2 | u2 | p2 | n2 | e2 | i2 | 1 |
| 004 | 3 | u3 | p3 | n3 | e3 | i3 | 1 |
| 005 | 3 | u4 | p4 | n4 | e4 | i4 | 1 |
| 006 | 4 | u5 | p5 | n5 | e5 | i5 | 1 |
| 007 | 4 | u6 | p6 | n6 | e6 | i6 | 1 |
| 008 | 4 | u7 | p7 | n7 | e7 | i7 | 2 |

|  |  |  |
| --- | --- | --- |
| **dataType\_T** | (\*) |  |
| dataType\_id | dataType\_title | dataType\_info |
| 1 | Any | Any data item |
| 2 | Self | Data item created/owned by the same user |
| 3 | Other | Data item created by the other users |
| 4 | Form | A web form to be filled-in |
| 5 | File | A file attached to a task or owned by a user |
| 6 | Database | Fields, tables, in database |
| 7 | MessageSender | Where IN messages are accepted |

|  |  |  |
| --- | --- | --- |
| **dataStatus\_T** | (\*) |  |
| dataStatus\_id | dataStatus\_title | dataStatus\_info |
| 0\*\*\* | Terminated | for data which was created but no longer available (deleted) in the system |
| 1\*\*\* | Alive | for data which was created and available in the system |
| 11\*\* | Approved | for data which is approved/unlocked and is ready to be used in the system |
| 10\*\* | Unapproved | for data which was created but not approved yet |
| 1\*1\* | Released/Unlocked | for data which was is available to be used in the system |
| 1\*0\* | Locked | not available for others to use besides the user who is currently using it or last modified it |
| 1\*\*1 | Active | for data which is visible in the system |
| 1\*\*0 | Passive | for data which is not visible in the system |

# status consists of 4 digits \*\*\*\*, you’ll need to split it into 4 single digits to find out about the status OR you can split this into 4 columns

# active means the given data item is visible; locked means it’s not available for others to use besides the user who is currently using it or last modified it

# approved means it’s been checked/verified and ready to be used; a data item can only be used if it’s alive, active, approved and unlocked, i.e. 1111

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **data\_T** | (\*) |  |  |  |  |  |  |
| data\_id | dataStatus\_id | data\_location | dataType\_id | data\_modifier | data\_changed | data\_owner | data\_created |
| 0001 | 1111 | user|user\_info | 6 | 001 | 2025-01-19 05:10:28 | 001 | 2019-01-19 05:10:28 |
| 0104 | 1111 | /upload/file1.txt | 5 | 002 | 2035-01-19 09:13:07 | 002 | 2019-01-19 09:13:07 |
| 0105 | 1111 | /form/form1.json | 4 | 003 | 2025-01-19 05:10:28 | 003 | 2019-01-19 05:10:28 |

# data\_location for type 6: <table>|<field>; for type 4: name of file which contains the web form data in JSON

|  |  |  |
| --- | --- | --- |
| **messageType\_T** | (\*) |  |
| messageType\_id | messageType\_title | messageType\_info |
| 1 | urgent | message that needs an alert sent to receiver email |
| 2 | normal | no need to send email alert |

|  |  |  |
| --- | --- | --- |
| **messageStatus\_T** | (\*) |  |
| messageStatus\_id | messageStatus\_title | messageStatus\_info |
| 1 | new | new message that is not read yet |
| 2 | read | message that has been read |
| 3 | deleted | not visible any more |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **message\_T** | (\*) |  |  |  |  |  |  |  |
| message\_id | message\_type | message\_status | task\_id | message \_sender | message \_receiver | message\_subject | message\_contents | message\_datalink | message\_created |
| 000001 | 2 | 2 | 0001 | 002 | 004 | hi | let’s have first meeting on Monday at 10am | < none or id of data item> | 2019-01-19 05:10:28 |
| 000002 | 1 | 2 | 0002 | 007 | 003 | start | Can you review this form? | 0105 | 2019-01-19 09:13:07 |
| 000003 | 2 | 1 | 0001 | 004 | 002 | Re: hi | ok | < none or id of data item> | 2019-01-19 15:10:28 |
| 000004 | 1 | 1 | 0002 | 003 | 007 | Re: start | Done, approved. | 0105 | 2019-01-19 19:13:07 |

**2.2 List of MySQL commands to CREATE tables and INSERT data (in 2.1):**

<please put here MySQL commands needed to create and insert data in 2.1, you should also put these in a db.txt file so that you can easily recreate them later>

For example:

CREATE TABLE ` **userRole\_T**` (

` userRole\_id` int(3) NOT NULL AUTO\_INCREMENT,

` userRole\_title` varchar(50) NOT NULL,

` userRole\_info` varchar(255) NOT NULL,

PRIMARY KEY (`userRole\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO\_INCREMENT=1 ;

…

**2.3 EERD for tables:**

<please insert the new diagram (similar to which you already have) for the new set of tables above, try to put them into two groups/areas (within the same diagram): user-related and policy/permission-related ones>

**(2). User ACTIONS/TRANSACTIONS**

USER (SELF, data=Profile)

* Register (codes in “a1-userRegister.php”, modify existing codes with the new tables, keep passwords un-hashed)
* Login (codes in “a1-userLogin.php”, modify existing codes with the new tables, keep passwords un-hashed)
* Logout (codes in “a1-userLogout.php”)
* View Profile (fields from this row in user\_T, codes in “a1-userOneView.php”)
* Edit Profile (a field in this row in user\_T, codes in “a1-userOneEdit.php”)

USER (OTHER, data=user\_T)

* View all users (in user\_T, codes in “a1-userAllView.php”)
* View users with filters (in user\_T, …)
* Add a new user (add a new row to user\_T, codes in “a1-userAdd.php”)
* Delete a new user (add a new row to user\_T, …)
* Edit a user Profile (fields in a row from user\_T, codes in “a1-userOneEdit.php”)
* Approve a user (change status field in this row in user\_T, …)
* Activate a user (change status field in this row in user\_T, …)
* Deactivate a user (change status field in this row in user\_T, …)

MESSAGES

* View all message in the system (in message\_T, codes in “a1-messageAllView.php”) sort by time,…
* View all message in the system with filters (in message\_T, …) NEW, IN(receiver=this user), OUT(sender=this user),
* View all message belonging to this user (in message\_T, codes in “a1-messageAllView.php”), sort by time,…
* View message belonging to this user with filters (in message\_T, …) NEW, IN(receiver=this user), OUT(sender=this user),
* Mark as read: after a new message (status=1/new) is viewed by the receiver (view by other users will not be counted) the status of given message should be changed to 2/read
* Delete a message (delete a row in message\_T, …) must first check (in contractDetails\_T) if the given user has permission to delete messages;
* Compose/Add(send) a new message (add a new row to message\_T, codes in “a1-messageAdd.php”): must first check (in contractDetails\_T) if the given user has permission to send messages; if so must have a form for this user to specify receiver, subject, contents, urgent or not, if it’s urgent then also needs to send an email (using user\_T to get the email of the receiver) to alert the receiver.
* Reply to a message (similar to Compose/Add)
* Forward a message (similar to Compose/Add)