*Florida International University*

*School of Computing and Information Sciences*

CIS 4911 - Senior Capstone Project

Software Engineering Focus

Feature Document

User Story ID #1274

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**Project: VIP web 6.0**

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**Mentor(s)**: None

**Instructor**: Masoud Sadjadi

# Required skills and knowledge fields should be more user friendly**:**

### Description:

* As a user, when i propose a project or apply to one, i would like the “required skills”/”skills and experience” textBox to offer the option to select from a list of options as well as being able to enter arbitrary text(skills) into a textbox.

### Acceptance Criteria:

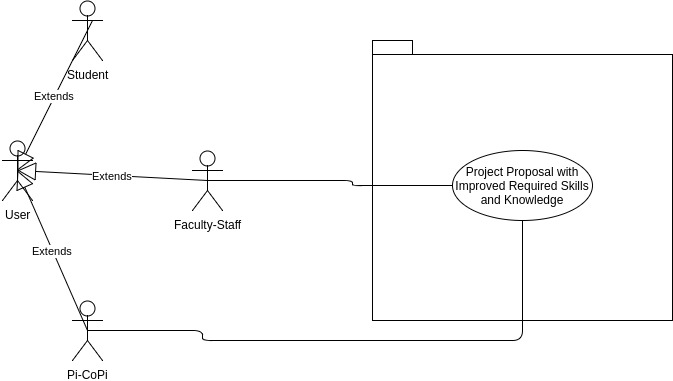
1. As a non-student user, when i propose a project, i would like the “required skills and knowledge box” to be large enough(multiline textArea).
2. As a non-student user, when i propose a project, i would like the “required skills and knowledge box” to offer a dropdown with options/skills others users have selected in the past that is filtered based on what i have written so far and when i click on one, it should be added to the “required skills and knowledge box”.
3. As a student user, when apply for a project, i would like the “required skills and knowledge box” to be large enough(multiline textArea).
4. As a student user, when i apply for a project, i would like the “required skills and knowledge box” to offer a dropdown with options/skills others users have selected in the past that is filtered based on what i have written so far and when i click on one, it should be added to the “required skills and knowledge box”.
5. As a user, when i’m either applying for a project or proposing one, i would like the options from the dropdown in the “required skills and knowledge box” to contain all skills previously entered by any user before me.

**Use Case**

* Name: Project Proposal with Improved Required Skills and Knowledge.
* Actor: Faculty-Staff, Pi-CoPi
* Preconditions: user has registered with the vip website, has verified his email and was also verified by the Pi/CoPi
* Description:

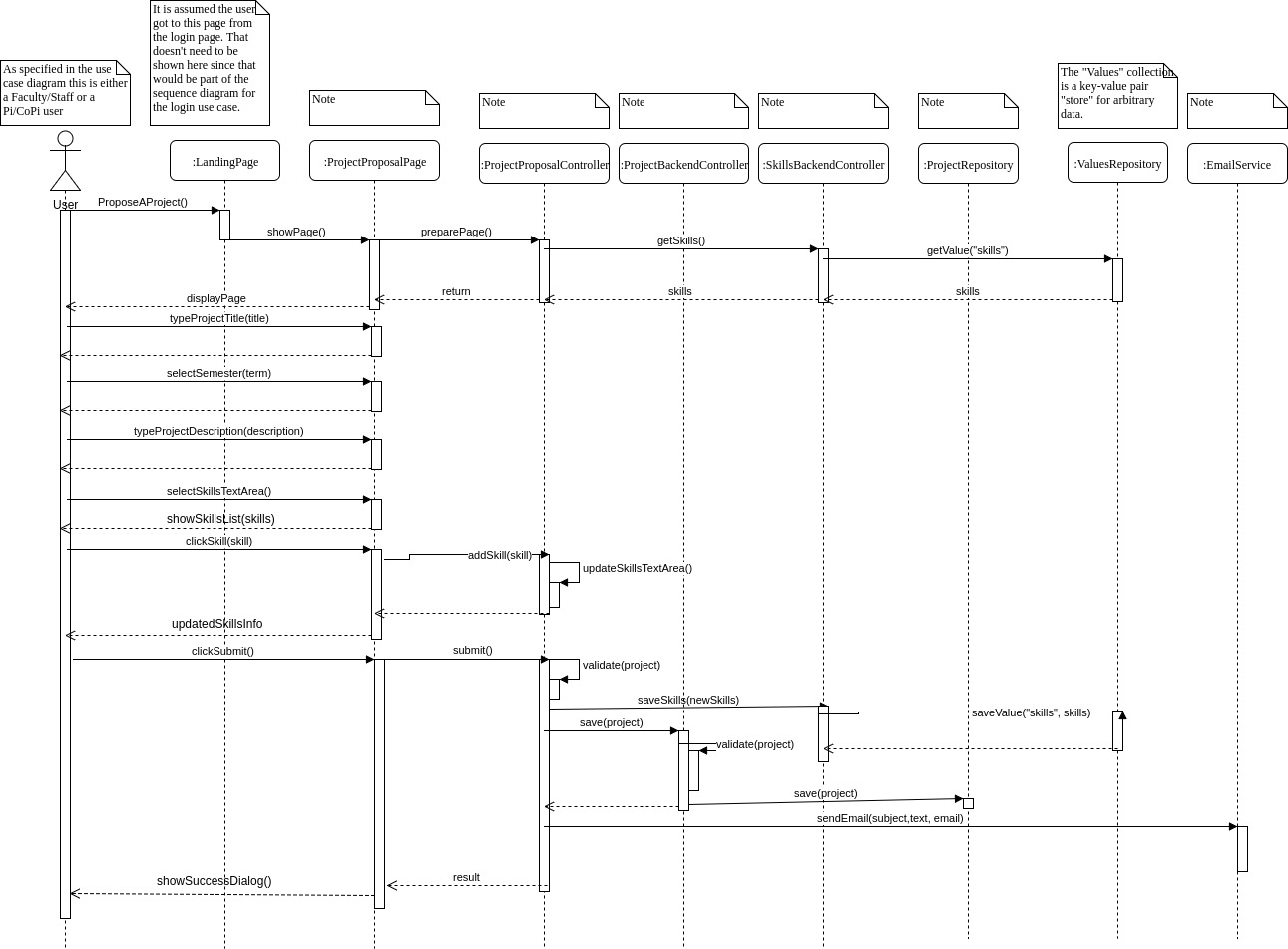
1. User logs in to the web site.
2. User is presented with the landing page by the system.
3. User clicks in the “Propose a Project” button in the landing page.
4. User is presented with the “Project Proposal” page/form.
5. User types the title of the project in the Project title textBox.
6. User selects the desired semester for the project in the semester dropdown.
7. User types in a description for the project.
8. User selects the “Required skills and Knowledge” textBox.
9. The system presents the user with a list of all Skills previously entered into the system by other users in that same textBox.
10. User clicks one of the options/skills shown by the system right below the “Required skills and Knowledge” textBox.
11. The system adds the selected skill to the “Required skills and Knowledge” textBox and puts a comma after it so the user can enter more skills.
12. User scrolls down and clicks submit.
13. The system saves the project and it also saves whatever skills the user entered that were not yet in the list of options.
14. The system sends emails to both the proposer and the Pi to respectively let them know that the system logged/created the project and that he/Pi needs to approve or reject the project.
15. The system displays a success message to the user right away so that the user knows his submission was successful.

**Use Case Diagram**



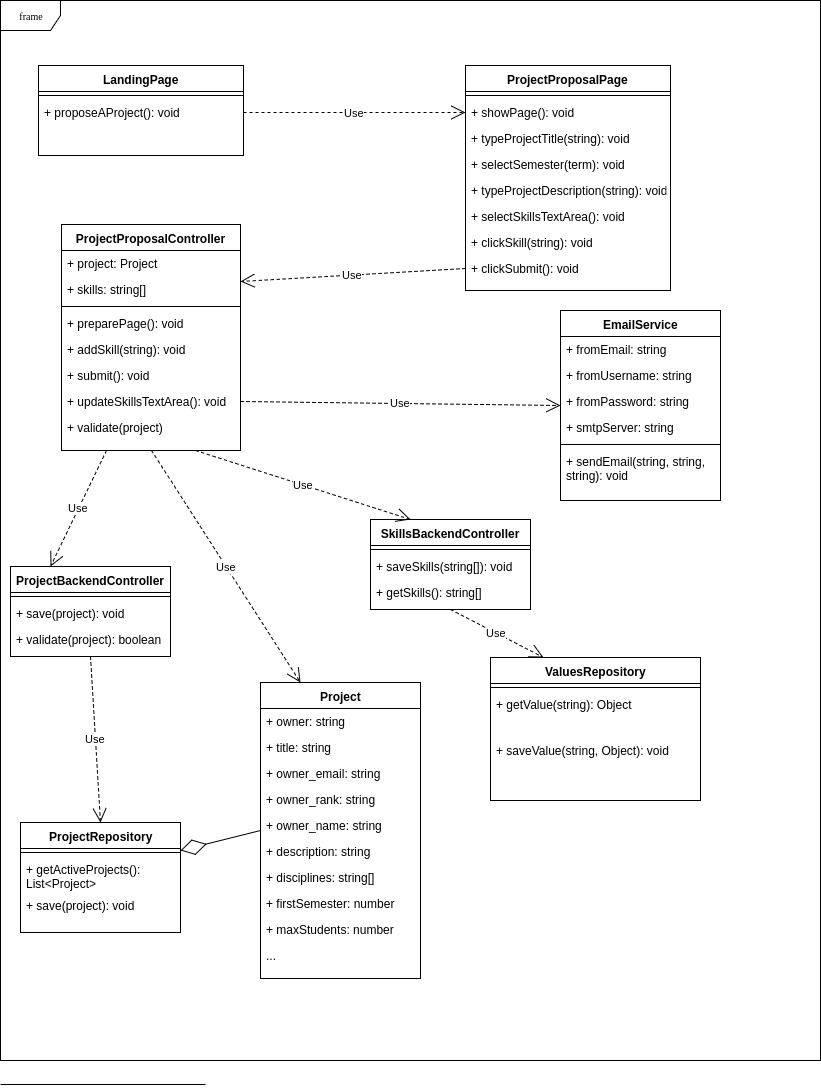
**Sequence Diagram**

See link at the end of this document to get a better picture.



**Class Diagram**

See link at the end of this document to get a better picture.



**Unit Test**

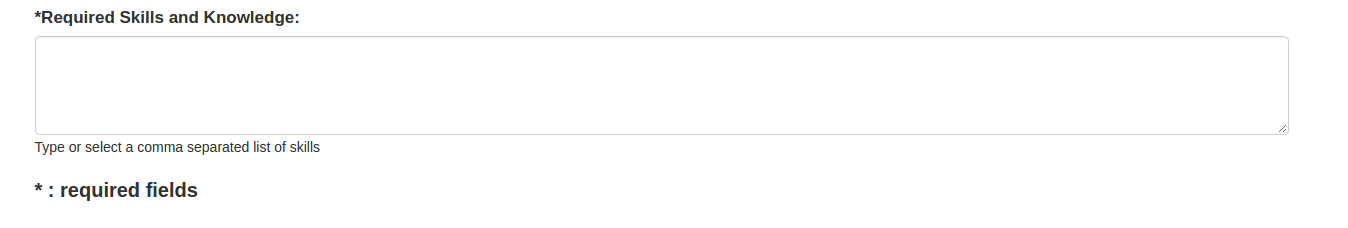
* Test case ID: Sunny day scenario
* Description/Summary of Test: There is a registered confirmed(email and Pi) staff/faculty user already in the system(call him Tom). Tom proposes a project and in the project proposal page, he selects a skill from the list shown below the skills textArea and then submits his project.
* Pre-condition:
  + Tom is logged into the system.
  + Tom is in the project proposal page.
  + Tom fills out the form as follows:
    - Title: “nada”
    - Semester: “spring 2017”
    - Description: “nada tampoco”
    - For skills, he selects java from the list presented.
  + Tom then hits submit.
* Expected Results:
  + An email will be sent to the user specified above saying that his project proposal was received by the system.
  + An email will be sent to the amin to approve/reject the project.
  + A success dialog is shown to the user within seconds.
* Actual Result:
  + An email was sent to the user specified above saying that his project proposal was received by the system.
  + An email was sent to the amin to approve/reject the project.
  + A success dialog was shown to the user within seconds.
* Status (Fail/Pass): Pass

**Integration Test**

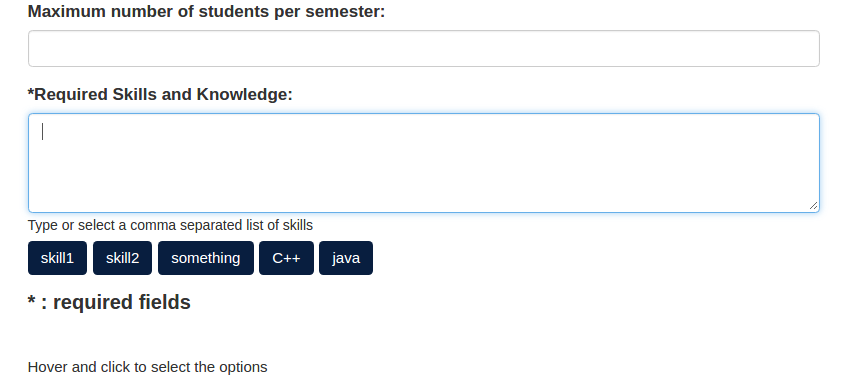
* Test case ID: New skills are saved in the database
* Description/Summary of Test: There is a registered confirmed(email and Pi) staff/faculty user already in the system(call him Tom). Tom proposes a project and in the project proposal page, he types in a skill not in the list shown below the skills textArea and then submits his project.
* Pre-condition:
  + Tom is logged into the system.
  + Tom is in the project proposal page.
  + Tom fills out the form as follows:
    - Title: “nada”
    - Semester: “spring 2017”
    - Description: “nada tampoco”
    - For skills, Tom types a skill not present in the list of skills shown to him..
  + Tom then hits submit.
* Expected Results:
  + An email will be sent to the user specified above saying that his project proposal was received by the system.
  + An email will be sent to the amin to approve/reject the project.
  + The new skill entered by Tom is added to the database and will be shown in the future to users who propose projects.
  + A success dialog is shown to the user within seconds.
* Actual Result:
  + An email was sent to the user specified above saying that his project proposal was received by the system.
  + An email was sent to the amin to approve/reject the project.
  + A success dialog was shown to the user within seconds.
  + New skills was successfully saved to the database.
* Status (Fail/Pass): Pass

**Visual User Guide**

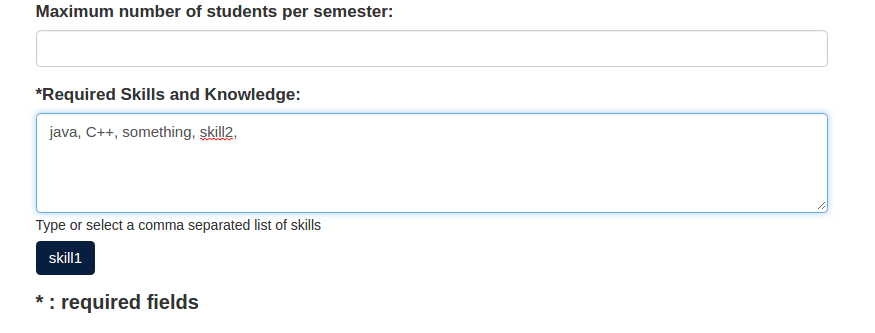
Unselected Skills textArea



Selected Skills textArea



Skills textArea after skills selected



**Notes:**

Sequence Diagram link: [https://www.draw.io/?lightbox=1&highlight=0000ff&edit=\_blank&layers=1&nav=1&title=1274-SequenceDiagram.xml#R7V1bc6s4Ev41rs0%2BJIW485jLObNTldlKbc7O7jzKINtMMPKAfJLsr18JBAZJ2DgRGKecqtggQJi%2BfN3qbomZdb9%2B%2ByWDm9VvOELJzDSit5n1MDNNYJsu%2FWIt77zF8e2yZZnFEW%2FbNTzH%2F0O80eCt2zhCeetEgnFC4k27McRpikLSaoNZhl%2Fbpy1w0r7rBi6R1PAcwkRu%2FU8ckRVvBYaxO%2FAPFC9X%2FNa%2Bww%2FMYfiyzPA25febmdai%2BCsPr2HVFz8%2FX8EIvzaarG8z6z7DmJRb67d7lDDiVmQrr%2FvecbT%2B3RlKSZ8LvDmcQxDa89D0FvbcuOZ8%2BgmTLafFzLp9hGkUp8snRrXyZ5P3ilT0CTZsc7tOHuMFSuKU7t1tUBavEUEZPZLw5qdd293rKiboeQNDdukrlSLatiLrhO4Bukn5SiC9JKv3kwRu8nhe3NWgLRkKt1ke%2F0T%2FQnkpPqwVbwm7030tFsWpjB0o4l3VFDeKftdxyLcTOEfJXc2%2Fe5xgdvsUFw%2BUkwy%2FoKqRstUo%2FuojlZiwWyziJGmc%2Bb34Y%2B30qb7DdZwwtfgdZRFMIW%2FmKgBMvq%2B6EUziZUrbQsrbgogyszn%2Ff6KMoLdGE2f%2BLwhTBmTv9BR%2B1KwkmmtqwHdfW1Jftq2aAl81Qq5py7rrnbTRDS5wauGzHFnYRPFqCMUGxykpbufczZwHQcpwRlZ4iVOYNOWsgx5tqqmVoJNmTptknoJkCopZGggm%2FVAFAa3bpwz%2FSaWffm1wDqkkplRCk4TS46K7X0l3HSDoriULoqXSXcP7vCg6U9VdZy%2FNXIFkXi%2FddS0Nuut%2FBYLZwOxHMQ1oF4CvQDEH9JMx09IgZLWD2qBZDn%2Bi5xcKa%2FlVil7Lrb%2FvIyQjR0x94VuOWXNMCF7TAyiNbplzzdoSHL4UTfQX%2FpdfWOz8wSG52GnQumgsb4siyfs%2BRG3q%2F8NsiUhTbWUONEjsc0JkKIGEmprW%2FVQk5r09MSnaMdMTmOkK0JnjbRYiflHTzxb6Ac6BjsrHkzoqGF4%2F4cecBFflJPzO9vJ%2FIeoixARzKbv4Bl%2FFN9gNVStLp8JtBQx5gf95GHLNiSK3u5dottMiGeiJ3LYW4J6qsTuKZE7PwZA9xGDIU%2BHctzWMk2eU%2FYzDS%2Bzii2FcHUXbMwBSY5yGARAAUwW5DudIHb1wfaefxjoDaKwtk%2FA2ZxTcoDBexFTu6cUpc%2F5WVHmNbc4%2BQ1h8RTFcZnBdHIzZRcUHiumpGfud9P87DLcJoT%2Fx%2BzOBLARr4OrQU0xb7zH7Yt12h0ZSTNBhnedqDGyF%2B0zwpqEACVoQdgHtKk6XP9ixB4qxTU03zlrTNSi21RZRoLApqriGO4iIWpKI%2FkoqaYN5vl0XUloLKBOwJWZnELyTzSLfYBqLDK%2FrkxO8LGSbHbuh3z9WkF0WYZSnf2NbKSq7Zv3M2RX5Cr%2BmxUNnxW6cMptGuysufMXbJKpOpfRnbXhR3y5Hf21RecFOdRaFQrR%2Fz07Lbi5aMSGtAH5bLa4dhV6YCr0A5iCKIWeK%2Fsmk4iIy0xEZMUJs94wQW4MIjBwx%2FlEAz8x0%2F9qyhOddGZTY7TMcYpmLkMQ4rUGX%2Fr%2Bg9%2BuyH0ahOGv1khPM8LHRSQlzMJvHJIMFgSJI4AXepiSrwAgEs68QVhW8DWP25aDZBd2mJjHi%2BE8Fb6rxnw54k0cu%2F943jNiuk9uQMCrUjH9kLHpi4VcGbo0wewfvdqUkXcLTkDQN5BXcDV%2F2NpROuI66AImMLGPwzHd3Q%2BVvu1ZBLxqUQG8xYQkK48bhe3%2B09sQURZ3R4KfUOY3drnjJn4iQdy70cEv9detu9yMfcaG8e5lSZhFagtVMd%2FAmIW0iM653rqMvIxTFQD1DaJDJZ7yBxYPSY99SEtOR%2BMmCa2qFacGr5fbTPWWcrnErDarnCYFoW9Y9WxXX0qJ8PZg%2BRlhrfw0OaFPI7Bd29nRULe2rubnk0ybgWgwRaw6cE4aaL77o5H1RUT7GdEUrN0yJSIzuiBH9UgR4cjnrAKYDhnC%2F4Lk9gGmwIkBgTKQK0DL2E0kovvGDXu6Cr8OdkvP6F%2FDWD95adWjMMKklBxIoeJdVehfsno6YDYHdXnBC7HYmUo9cKkBf6AaG2wu6HfvzFAoUBUXTp5Dj2v0o5GoALzk5fjFuEzNuIsiMatwUGCPNT7rMKvxyhs2yBcPWs4JHy6xCWzEcPgls%2B8cZtp4hTB0UkmF7khQy2xTy%2B5Vj65hoqUj%2FngGFzKqecgwKyc5RjlilxjNao5w%2B4hX9X%2BufZ1Sn6Kp5RuUdpClFzfxZxc0%2BlP3kfKFrqlw3jporB%2BYMfWCqj32cD9%2BH4HiD6KG7COar2rjRw9yS%2BLNGQnXWTKcGTpNL18aN1WLUjVlPEOs5J6yZEx2VgQ5os88T%2BuiYqUUJCN8bp3FM%2BByDHdmWkfcN4h7UA8rDLN6w%2BoGraLc9EaULTql0liFgnD6lc%2BSI3tdUujEZKCidZQanU7rqwc%2FL%2BFs9HUgdxt%2BVw%2F7c%2BBdxyx%2FojdxmCF5NA4mqqbYnQiKxKEMfErnHealni0SjMlBEIv%2BESOROJQJ5HBK54yGRJxvjMInDlwKIrnL2OQ0Q8qxTgpAtBlb0gZB3lsEEWzWpTCGjgQ4Zlf0JGEV7JfRwvWuDpOpo%2BGOx92CqZbkdIO9exaOPZPujSbZQF2mb%2FaS6G5vVtxHXTrDbi%2BjRjbLHj6qML8N6CVrb%2BTomE%2FGa%2FDHdf8sTAMvpydqPUP9M3PsOghxaRsjRgFjVYiFN%2F75LNs8JqoLj2UBdWeAJvKjornltocHQTC1JSjTbXV11jxeLHH1W54Kp1IntZ7Yp5K0cReG9Uul06Jw8mKObcQQJutqU8b4zVz5nNIMi8XEg1epSYV2OgiWbqkt9xcO06ivEXLcKMgarr5Axo6yqQFWRxUScSUuh%2B6qQ8yBoIK69B4aLyNlyOIIt2sFKXCbCiUo8D3Ci75LIn2SNJS71Io63NbJG9mmjON8k8F1ZgDRm3LSDbS3N6GZbi7ujcKkOPOtfvFKxqkgj4fkjJgm6IuxzItqkiOp9dnKumgeBK5YVeP2WIv0IE47z1s82rzAe96qYQ52r66dAw9QUyNGnDJFtlk4dA51uJ6LlawwzpnCM0UDQkd26TYbYY0%2FIkdjDjSbTRuLGgI6DIw%2FCKBH4itoT4YUiBN%2FHqetYyPyzcS1%2FNN5UnnzT3y4YM3ks6%2BZYK7cyDsccgWMm6Ffz9hGOyQ7eeXCsSiAesj7mIBwChiW4f%2F5g5seVM7q052JttqvGKmuca9X%2BNJBwD5daVmksLg2Xd3dls8RCDaVdeoxzUuaWFa96IOiNtCOCGZvtAnfTYOT4O1vWqIobygHCHqvrXNt6wm0gEHLAqmIT1TJxOmL0nhxDmDpsqepORgscCMMe55RVnb7Mu%2B2GZVfKSoz813SBv5aqiO92c6o05qGXu%2BlQFX%2BqUxPofjuEELidC7v10C9VmYTKLRhGwQQw9CrzdwoFCxS%2BODNI2zBEef4QwwQvFeOls1Yx4LcZ4Js9Z9dqUbGJTHQ8sAaxMLZwLNXSSAoKaciP%2BXI6psT8g3Xq55RY97tyA4OPE51qjV7NeXUXqO%2BjK68eHFezqsc4dXDyRNFMkZPVuPzYF5uJgTipI33j0kAOHVBTsU3IiI7FTbXHfQfPnqmXke3P7aY3EQykt%2BIra8VZ5H25bVevxKrsnTXYa%2ByAITvs7FWGh%2BIQM%2FOeEbVj7DsZXFe7qmyt36PkqQkV9TvEDglZxwuCPjvYE6okXfGtqZqMgy8saOLy%2B3bJrHy%2BXmNSL0kkCGp31d4pAmN1Feg0cgSBKQiLL7h7%2BgJlwDhuFtUUojb7uHWC%2FIDILc8dLD8AjOPWnz6pb2YOQm0gFqx5PSezq%2BLRB3rSyDggO9U5pXLxAsarfDtnWEiNczHeL2w0Ykcmgo7Vy%2FymgY5ADN15nt9LAj7EN3mQfEaF5zvPHLSQFrjWJzwp0DWkVsL0AHkkYQDsBv3M47G%2BlCe%2BDTLY70uJ53vcSdfmS4GziGl5ppoMY7z2FoCJzKXZT6JADE2r3lanIJGOFeAAOAuPHHT5eNrxRJJXcfHPD5sTupthNu7enZ7Bzeo3HCF2xv8B](about:blank)

Class diagram link:

[https://www.draw.io/?lightbox=1&highlight=0000ff&edit=\_blank&layers=1&nav=1&title=1274-ClassDiagram.xml#R7Z1fc5s4EMA%2FjWdyD9cxYGz8GCft3UNuLnPp%2FXvqyKDYugBiQI6T%2B%2FQngYQBSQlOhNqbqjNtjcDC6LcrrXZXYhZcZU8%2FlaDY%2F4ITmM78efI0C65nvr9cL%2Bm%2FrOC5KVgtg6ZgV6KkKfJOBXfoX8gL57z0gBJY9S4kGKcEFf3CGOc5jEmvDJQlPvYvu8dp%2F64F2EGp4C4GqVz6J0rIvimNwvmp%2FGeIdntxZ2%2FOz2xB%2FLAr8SHn95v5wX39pzmdAVEXv77agwQfO0XBx1lwVWJMmk%2FZ0xVMWdOKZmu%2B90lztv3dJczJqC%2BsQLwF4WoRwTBYL7c%2F8hoeQXrgbXFfggzyX0ueRQvRH16wj4cs%2FVRfEGyOe0TgXQFiVn6kckHL9iRL6ZFHP9atAtl95%2FSofXB2EOMMxfxzCrYw3bTNeIVTXNJTOc7ZPSpS4gcoCmnrzus%2F7RlBi93wHqVp50rOgZbjnHwCGUqZcP4BywTkgBdzSfTm%2FFh1I5CiXU7LYtrEkJ7cyG0uGhGWBD51ijiDnyDOICmf6SX8rBCH5%2F7hsSN7omzflbv5kpcCLvC7tuoTdPqBc9fIQCAxvy3xP1SvfoMFrhDBvL4e%2FyPKUlAz6TCu25Bf5KnaijUJonp2yU8QzKQk3qM0uQHP%2BMAerCKUvjja7HGJ%2FqXVAnEPeroUoPxl74o79k0uRyWs6DW3gorXFt2AirRyl6agqNC2%2FcEZKHco32BCcCYklT%2FpJ404GcC%2F6OOPFr7E31uq%2BHsm8IcSfol2ioakX1Y3rq0CfwrviQJ%2BhpIkrbWadhoo331mwnD9o3cquam%2FeB2cSn7jTx%2FUPQoBBDTw2q7jlkkswqz%2Bsrl2U2CUk7qFws0svK5LSqrbOX0IgGpqkArFETLBUPEMRgMVCrwcBzAygG%2BpwLdhYygklzFBj5Arc3Xxwyy4pCduEH1Ofwkypnope2R%2BRVu4O7VDRwjosxOVEAygny8HTSfQR76QkS80Ywym9d2n9WCypxIFc4Vo9EVgQ1FczT%2BETBj8K3rsnY6tyEewGCcfwdKAgIiRQ5KQCjzCi6Jhz2XjEdOvacDbp%2F1VyEoUVbC1ZFfy0K0k6xsgK7qPDtjfK9lUg3lyyWxieoSLug1pibB06KNsElDta8PM66s3feby%2BS%2FWzrQB%2BeHfvNnhEyKdU%2FTob%2F4t7XhY4UMZCwNbjDp0MKcdVV%2BPYNKzzuW2VjVuCVPAerveLVWty6u7ZXLTGYIHY3AYDobW5tfzb3UtaqmisFfRyvP7FTVPLFVEEYHnzmVcrofi0LbCKAkJZNNuIgnpyUcrE3%2BJ67h8NGdGSkggS4joN7%2BGhLQSIcD6q7dJyNIbVLQcVKSRkLfwX0j8P2YApXewfESxYlbnrHpzVn0Y9TkHwcixwVsbMOsDlVnPRv37Eme1EDQjPh0J6ajrjD21SdDzFfwM00fIHmbgLfBf8BbsSpAgeDrHG0kWr1ZVjU8yTJgagWxqnKSJDillXvuAnECdP3s4H3w40j1gBPz6BfC3oKqOuEwceDvgV5E98AvtrDEjBbMf2MjvsNvA7s1HuguMKLzKn%2BTcge8DONbyM%2BAPDFY6vaVzutruuxAae9XR3tPnEZ4gp9QmZGJkZy6CAe%2FqzOWwnlNqoyG7Uwi4w9Ofh5PouBAJOWInUXUzeoMzen8wo1%2FNx1riaxMWmezMa3p2fMydMfa2frvVpG9y1r3QxfYIIqmbblsibnO6vdBZb7WOf4HOb2ePu9XZts7N0nAvQf7gsNvBbnW2Hb44pn9xXlWL3MdO0o3ou86fnsAqLlHRzG4ceCvgQ4smnTAmZPCoilHBJuFVD3wznXX4p8MfWbTvQpUjpg6noLIidzCjzyXmcvkh29LPDv10c7m5RRMv1AVUMvB0Rw60wUjlwFsCPzYB0wh4OQnnw4cPDu%2BUPhqLplw4In%2B%2Bk2CXIJDhPPm8RzzPjvkrZyKDTmTd%2BYuZOtGuPWjS6fxupp3Iyzwz006077eSiukv%2BxmU0TACMjbRzo8GFQWDiswl2kWyp4575Ol%2FBa5AesuWnDnv%2FMve%2Bddyr9UyKDJvh7hDqRNQBmSoCr%2B%2FF4hUjrsB7e8vwvYKz0ZrznG1TxVRW8tjNI%2Ba7%2FGRqe6FWyBhBqrC8lJrpYGhea3LgSXPhVgW9ZmFUi5Gpz44xiMYK8yv6RjrYmQVTCleMaW%2BoH8zx9cM32hkx2yEry4i1tHh65PT1GmyUdKeWL1kBbUuCMZV%2BYHCqT5TepclBG5ANoVYkYg2GeI2S0piHKcofqgROxU2y3dp0eLy5joHd8P3sM0QcaprCu3aoqEVyb3zDcgT2orOtTG1ayPkXfSZng0T6wjXqg7bOTZe0dv1i3pr07Gh64%2BL2i8JL7kJ7fpkQ2yt%2Bjd8Ce43s7x%2FEDl4NQohBLUbhWi8claCDu3ibKGiw75zbNCh%2FUFCHrxFvyJzQQdvLvMfRB2opFOlTVNFOLkzQLtR%2BU2jcuT1RWahCCqv1grVN2Np6xwjfEefpj%2FXrQtxXXoXc6NIZ%2BX8K8Ea4apLCa1q%2F8f45DDHdgxbVXb%2FdGxVYSa1Mf2dW9CvYVMl56uwmdhhb64LIxUlZL%2FZxQdNklUEFyZUSF0eNkgS54ycgK4qoDAdXk%2Fnba6cI9IsVtVq9umw6kykQ5EAAl2gaCLIikjChJB1KTm0ADHMp61LHdX3UFUEESYccOV0jan2LPXP3rT0XJ9V64DpOq0WmuaewGnlDTYtDd7qtGrXpbQbGwxSIm1uWtqaCJPLyFuSqc%2BXEYVjU6uTUwjJeuDZHG4aP3pnW8FFV5FBz6ZiU3ruyWKvhoDsvRDOsTmZY3PgCw9VUzLVcgoT8UbPG59J%2Fb37SBotOcttOdVbCLSvIXCbzE9A1ubyNc%2FT%2BUhkQ7zGu8U4hSB3hN9D2OYKNq%2FdCevrGuX%2BhFa5tr2nsLgGgcFF9NZYsj9Y0RQNaFs1y8U43JGSxtPiTDILJtnAig%2FFxsxWbDLfxa3GUvRf9rbYtMl8XdyK2WSN6l50A8nOPDME2ap55ussbzoycMg%2FuKQBs4DtWmfyhPhrWGerKa0zXXtPsb3Aqj%2BSLoJBFWOts3A9rGic0%2FRNtpc8B%2FuDfazcKzrt2F%2Fh4KVNy9VK6gJah2jvZT5i29739QGqpXFqA8xl4Z968ehcW0yJ0IQtJlyqqlG61uR%2Bosmv25eyNt0eQQboqxL1VfQXJsbwQPawnEzxLv%2FmTQwNfvcmBjuSEMnW3ISSIHtR%2FscBcDEM9Y05TXN%2Fy6624foPm6%2FtpIclxqR7OVWm%2FS84geyK%2FwA%3D](about:blank)