**Artifact 3**

Group BS19-01 - Digital Library

Daniil Igudesman

Shamil Arslanov

Maxim Kozhinov

Arina Kilmukhametova

Igor Shishigin

Fundamentals of Software Engineering Fall 2020

# Product backlog( with clarification, AC and Estimation)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Number | User Stories | Clarification (only for Iteration 1) | Estimation (in s.p.) | Acceptance Criteria |
| 1 | As a user I want to register to the site so that I have an ability to share/download materials. | Our project is aimed only for university students and staff, that’s why it is important to register them first and theт provide access to the website. | 8 | Given: I am interested user and I’m on registered page  When: I fill my user UI mail and password.  Then: System sends request to web-server, and sends to user the confirmation email. |
| 2 | As an user I want to be sent confirmation of registration to site so that I know that i have been registered | After the registration users should receive an email with the login/password, using them users can access to the website. | 3 | Given: I am the user of library and I have registered to web-ste  When: I click on the registrate button  Then: System sends me the confirmation of registration by email. |
| 3 | As an user I want to upload files to site so that i can share it with other users | Our platform allows you to share digital information. And this user story provides the minimum functionality (uploading) that our project must have. Hence it should go in the first iteration. | 5 | Given: I am a signed-in person in “uploading materials” web-page.  When: I chose via special window the file to upload, fill additional information about file, and clicked the submit button  Then: System accepts my submission and send request to moderator for further its acceptance or rejection |
| 4 | As an user I want to access files of other users on site so that i can download them | As it was said earlier, the main purpose of our project is to share materials among UI users, that’s why it is crucial to add functionality to download material. | 5 | Given: I am a signed-in user in a chosen file page  When: I chose proper file (format of file) to download and clicked the “download” button  Then: Chosen file starts to download on my device |
| 5 | As a user I want to read materials so that I can get additional information about the digital material |  | 5 | Given: I am a library user and I am looking for material  When: I click on the book I'm interested in  Then: The system takes me to the material page and shows additional information about the book (author, upload date, name, abstract, etc.) |
| 6 | As a user I want to navigate within courses so that I have an ability to find useful information related to a specific course |  | 3 | Given: I am the user of library and I’m on the navigation page  When: I choose a course name (e.x. BS-2) in the search bar  Then: The web-site shows material that was marked only with this course name tag. |
| 7 | As a user I want to navigate within years so that have an ability to find materials which were uploaded in a specific year |  | 5 | Given: I am the user of library and I’m on the navigation page  When: I choose the date of uploading material(e.x. I type 2020 in field) in the search bar  Then: The web-site shows material that was marked only if material was added in this year. |
| 8 | As a user I want to navigate within all recently added material so that I wouldn’t miss any important material that was added by others. |  | 5 | Given: I am the user of library and I’m on the navigation page  When: I choose to see all recently content  Then: Navigation page shows all recently added books (e.x. last 10 material). |
| 9 | As an administrator I want to log in with admin account to the site so that I have an ability to control access to the materials of the site |  | 13 | Given: I am a logged-out user and I’m on a sign-in page.  When: I fill my administrator credentials  Then: The service provides privileged access to the web-site |
| 10 | As an administrator I want to decline inappropriate users’ content so that users can’t upload forbidden materials |  | 5 | Given: I am the administrator on page “request for adding digital material”  When: I choose to decline or accept suggested materials  Then: The book become available to access for users or not |
| 11 | As a professor I want to moderate content of specific categories so that users can have good and moderated content of the course |  | 3 | Given: I am the professor and I am on the page with some material.  When: I choose to decline digital material by pressing button “Delete” and filling short information why.  Then: Web-service makes this material unavailable for users and sends the report to moderators. |
| 12 | As a user I want to search within a site in some category or with some specific parameters so I can find a specific material if I don’t know the name of it. |  | 13 | Given: I am the user of library and I’m on the search page  When: I don’t know specific name of the book I could try to find it by tags, name of course and other fields in search bar  Then: Web-service shows all books that satisfy the search request. |

# INVEST table with criteria of estimation

|  |  |  |
| --- | --- | --- |
| Criteria | Evaluation | Clarification |
| Independent | 1 - independent  2 - fully dependent | If feature is independent - then we can assign first priority to it |
| Negotiable | 0 - strictly defined  1 - can be discussed | If the task is fully defined - we can’t discuss it with customers. |
| Valuable | 1 - valuable feature, should be done  2 - can be done, can be skipped  3 - not valuable | There are only three cases here - we represent them |
| Estimable | 1 - all people agree on the estimation  2 - several people on the estimation  3 - nobody agree on the estimation | This way is comfortable to decide through discussion |
| Size | 1 - small(less than one week)  2 - medium(1-2 weeks)  3 - large(2 weeks or more) | Small tasks will be splitted between different sprints in addition to large tasks(no more than 1 for sprint) and medium tasks(no more than 2 for sprint) |
| Testable | 0 - not testable  1 - testable | If the team imagines how to test - it is testable. If not - can’t |

# Assessment of user stories

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | User story | I | N | V | E | S | T |
| 1 | As a user I want to register to the site so that I have an ability to share/download materials. | 1 | 1 | 1 | 1 | 2 | 1 |
| 2 | As an user I want to be sent confirmation of registration to site so that I know that i have been registered | 2 | 1 | 2 | 2 | 1 | 1 |
| 3 | As an user I want to upload files to site so that i can share it with other users | 1 | 1 | 1 | 2 | 2 | 1 |
| 4 | As an user I want to access files of other users on site so that i can download them | 2 | 1 | 1 | 1 | 2 | 1 |
| 5 | As a user I want to read materials so that I can get additional information about the digital material | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | As a user I want to navigate within courses so that I have an ability to find useful information related to a specific course | 1 | 1 | 2 | 2 | 1 | 1 |
| 7 | As a user I want to navigate within years so that have an ability to find materials which were uploaded in a specific year | 1 | 1 | 3 | 2 | 1 | 1 |
| 8 | As a user I want to navigate within all recently added material so that I wouldn’t miss any important material that was added by others. | 2 | 1 | 3 | 2 | 1 | 1 |
| 9 | As an administrator I want to log in with admin account to the site so that I have an ability to control access to the materials of the site | 1 | 1 | 1 | 2 | 3 | 1 |
| 10 | As an administrator I want to decline inappropriate users’ content so that users can’t upload useless material | 2 | 1 | 2 | 3 | 1 | 1 |
| 11 | As a professor I want to moderate content of specific categories so that users can have good and moderated content of the course. | 2 | 1 | 2 | 3 | 2 | 1 |
| 12 | As a user I want to search within a site in some category or with some specific parameters so I can find a specific material if I don’t know the name of it. | 1 | 1 | 2 | 3 | 3 | 1 |

# Definition of Done

# 

|  |  |
| --- | --- |
| Checkbox | Justification |
| Code in uniform style | This criterion includes the presence of comments for non-trivial code fragments, descriptive names for variables, functions, necessary documentation and other constituent components. This checkbox is valuable mostly for developers, because it provides easy test coverage and debugging, simplifies the process of making further changes, and provides the ability to support a project by multiple developers or entire communities. |
| Code is peer-reviewed | This criterion helps to avoid situations when each developer has their own distinctive coding style that will inevitably make the project disjointed. Using the review process to ensure consistent design and implementation contributes to the maintainability and longevity of the software. Moreover code review can facilitate the communication of knowledge as it relates to code written by the newbie. And hence experienced team members have the opportunity to impart their advice. |
| Passed unit tests | This is a valuable criterion for developers as well as for users. Unit testing identifies every defect that may have come up before code is sent further to development. Writing tests before actual coding makes you think harder about the problem. It exposes the edge cases and makes you write better code. |
| Passed cross-browser and cross-platform tests | This criterion is essential both for developers and users. As the project is a web application, the software must work correctly independently of the browser or the device the user uses. |
| No defects or bugs found | Developers need to create a product that works predictably and correctly. Otherwise if a bug is left to fester in the software it may camouflage other bugs, cause duplicate effort and lead to incorrect project metrics. Fixing a bug today will cost less than fixing the same bug tomorrow. |
| Acceptance criterion met | Meeting all acceptance criteria preserves from unexpected results at the end of a development stage and ensures that all stakeholders, product holders and users are satisfied with what they get. |