# Product Backlog

## Version 1:

### SPRINT 1:

#### Core:

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| ID: 6.6 | Title: As a User I want to be able to log in to my account. |
| * Logging in as Worker or Admin will result in having different Permissions | |
| Cost: 34 | |

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| --- | --- |
| ID: 6.2 | Title: As administrator I want to be able to create worker accounts. |
| * Workers have to be stored in the database. * For every worker the following attributes will be saved:   + Username (mandatory, unique no overlap with Admin username)   + Password (mandatory, hashed)     - at least 8 symbols, one upper case and one lower case letter and a number   + Type (mandatory)   + Name (mandatory)   + Birthdate (mandatory)   + Email (optional) | |
| Cost: 8 | |

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| --- | --- |
| ID: 2.1 | Title: As administrator I want to be able to create animals. |
| * Every animal has to be stored in the database. * For each animal the following attributes will be saved:   + Name (mandatory)   + ID (unique)   + Description (mandatory)   + Species (mandatory)   + Enclosure (optional)   + Public information (optional) | |
| Cost: 8 | |

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| --- | --- |
| ID: 2.3 | Title: As administrator I want to be able to assign an animal to a worker. |
| * The worker has to be of the correct type (animal caretaker). * Every animal can be assigned to one or multiple workers. | |
| Cost: 5 | |

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| --- | --- |
| ID: 6.7 | Title: As an Administrator I want to have an overview of the workers. |
| * List of workers in the database | |
| Cost: 5 | |

|  |  |
| --- | --- |
| ID: 2.6 | Title: As an Administrator I want to have an overview of the animals. |
| * List of animals in the database | |
| Cost: 5 | |

Total Cost: 65

### SPRINT: 2

#### Finishing core

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| --- | --- |
| ID: 1.1 | Title: As a worker or admin I want to be able to create tasks of my assigned animals (only necessary for workers). |
| * Every task has to be stored in the database. * For each task the following attributes will be saved:   + Title (mandatory)   + Description (mandatory)   + Starttime (mandatory)   + Endtime (mandatory)   + Subject (animal or enclosure; mandatory)   + Status (mandatory; with following possible values)     - not assigned yet     - in process     - done     - error | |
| Cost: 13 | |

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| --- | --- |
| ID: 1.3 | Title: As creator of a task or as the Admin I want to be able to assign tasks to workers. |
| * It is possible to distinguish between different worker types. * For a task assignment the assigned worker, the task and the required worker type will be saved. | |
| Cost: 5 | |

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| --- | --- |
| ID: 1.7 | Title: As a worker I want to be able to view the tasks assigned to me. |
| * Tasks that are not finished yet need to be displayed in a to do list. | |
| Cost: 5 | |

#### Finishing and Deleting of Core Functionality

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| --- | --- |
| ID: 1.5 | Title: As a worker I want to be able to mark tasks as done. |
| * The status of the task will be automatically changed. * The task will no longer be displayed in to do lists. | |
| Cost: 3 | |

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| --- | --- |
| ID: 1.9 | Title: As creator of a task or as the Admin I want to be able to delete tasks. |
| * Deleting of tasks has to be irreversible. | |
| Cost: 2 | |

|  |  |
| --- | --- |
| ID: 2.4 | Title: As administrator I want to be able to delete animals. |
| * Deleting of animals has to be irreversible. * If there are still tasks assigned to the animal a warning will be shown. | |
| Cost: 3 | |

|  |  |
| --- | --- |
| ID: 6.4 | Title: As administrator I want to be able to delete accounts. |
| * Deleting of accounts has to be irreversible. * If there are still tasks assigned to workers a warning will be shown. | |
| Cost: 5 | |

#### Enclosures

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| --- | --- |
| ID: 4.1 | Title: As administrator I want to be able to create enclosures. |
| * Every enclosure has to be stored in the database. * For each enclosure the following attributes will be saved:   + Name (mandatory)   + ID (unique)   + Description (optional)   + Public information (optional)     - description     - picture | |
| Cost: 8 | |

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| --- | --- |
| ID: 4.5 | Title: As an Administrator I want to have an overview of the enclosures. |
| * List of enclosures in the database | |
| Cost: 5 | |

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| --- | --- |
| ID: 4.3 | Title: As administrator I want to be able to assign animals to enclosures. |
| * It has to be possible to assign several animals to the same enclosure. | |
| Cost: 5 | |

|  |  |
| --- | --- |
| ID: 4.4 | Title: As administrator I want to be able to delete enclosures. |
| * Deleting of enclosures has to be irreversible. * If there are still tasks assigned to the enclosure a warning will be shown. * An enclosure can’t be deleted while being inhabited by animals. | |
| Cost: 5 | |

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| --- | --- |
| ID: 1.2 | Title: As a worker or admin I want to be able to create tasks of enclosures inhabited by my assigned animals (only necessary for workers). |
| * Every task has to be stored in the database. * For each task the following attributes will be saved:   + Title (mandatory)   + Description (mandatory)   + Starttime (mandatory)   + Endtime (mandatory)   + Subject (animal or enclosure; mandatory)   + Priority (optional)   + Status (mandatory; with following possible values)     - not assigned yet     - in process     - done     - error | |
| Cost: 8 | |

|  |  |
| --- | --- |
| ID: 1.10 | Title: As task creator I want to be able to set my tasks to high priority. |
| * The automatic task assignment finds the earliest time possible for the task to be done, without balancing workload. | |
| Cost: 3 | |

Total cost: 70

## Version 2

### SPRINT 3:

#### Editing:

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| --- | --- |
| ID: 1.4 | Title: As administrator or creator of a Task I want to be able to edit it. |
| * It has to be possible to change the following values:   + Description   + Start- and end time (only while not assigned yet) | |
| Cost: 8 | |

|  |  |
| --- | --- |
| ID: 2.2 | Title: As administrator I want to be able to edit animals. |
| * It has to be possible to change every saved value (except id). | |
| Cost: 8 | |

|  |  |
| --- | --- |
| ID: 4.2 | Title: As administrator I want to be able to edit enclosures. |
| * It has to be possible to change every saved value. | |
| Cost: 8 | |

|  |  |
| --- | --- |
| ID: 6.3 | Title: As administrator I want to be able to edit existing accounts. |
| * Every saved value of both account typed can be changed. * Passwords can be overwritten, but the current password can’t be seen. | |
| Cost: 8 | |

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| --- | --- |
| ID: 6.5 | Title: As a worker I want to be able to change my password. |
| * The password will be saved in the database after hashing. * For future logins the new password will be used. | |
| Cost: 3 | |

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#### Searching:

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| --- | --- |
| ID: 2.5 | Title: As administrator or worker I want to be able to search for animals. |
| * It should be possible to search for animals with the following parameters:   + (Part of) name   + (Part of) description   + Enclosure   + Species * Parameters can be combined as desired. * Search will be case sensitive. | |
| Cost: 5 | |

#### Automatic Task Assignment:

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| --- | --- |
| ID: 1.8 | Title: As the task creator I want to be able to assign tasks automatically. |
| * The type of worker, time and workload has to be specified. * An algorithm automatically assigns the task to the most fitting worker. | |
| Cost: 21 | |

Overall costs: 61

## Version 3

### SPRINT 4:

#### New admin accounts:

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| --- | --- |
| ID: 6.1 | Title: As administrator I want to be able to create additional admin accounts. |
| * New admins have to be stored in the database. * For every admin the following attributes will be saved:   + Username (mandatory, unique no overlap with Worker username)   + Password (mandatory, hashed) | |
| Cost: 8 | |

#### Calendar:

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| --- | --- |
| ID: 1.11 | Title: As a worker I want to have an overview of open tasks in a calendar. |
| * The calendar shows which tasks still have to be done at what time. | |
| Cost: 13 | |

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| --- | --- |
| ID: 2.7 | Title: As a Task Creator I want to see the unfinished Tasks of an animal. |
| * The detailed View of the Animal shows the unfinished tasks associated with it. | |
| Cost: 5 | |

#### Public:

|  |  |
| --- | --- |
| ID: 3.1 | Title: As a Task Creator I want to be able to create events. |
| * Events are a special subtype of tasks that can also be viewed publicly. * Additionally to every attribute a task possesses, events can also contain public information. (description and picture) * Everything that can be done with tasks should also be possible for events. | |
| Cost: 8 | |

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| --- | --- |
| ID: 5.1 | Title: As administrator I want to be able to display general information about the zoo. |
| * The information shall be available to the public. | |
| Cost: 2 | |

|  |  |
| --- | --- |
| ID: 3.2 | Title: As a viewer I want to be able to search for events. |
| * It should be possible to search for events with the following parameters:   + (Part of) title   + (Part of) description   + Date * Parameters can be combined as desired. * Search will not be case sensitive. | |
| Cost: 5 | |

#### Commenting:

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| --- | --- |
| ID: 1.6 | Title: As a worker, Task Creator or Admin I want to be able to comment on tasks. |
| * The comments have to be stored in the database. * Administrators and other workers assigned to the task will be able to view the comments. | |
| Cost: 8 | |

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