Work Order

| Project Sponsor | Donon Y. |
| --- | --- |
| Project Manager | Rodin I. |
| Author | Pashina T. |
| Classification | Not classified |
| Status | Pending |
|  |  |

List of Changes

| Date | Version | Changes | Author |
| --- | --- | --- | --- |
| 6.3.2019 | 1.1 | Document init | Pashina T. |
| 26.3.2019 | 1.2 | Objectives, outcomes and activities change | Rodin I. |

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# Work Objectives

| No. | Objective |
| --- | --- |
| 1 | *Evaluation criteria* |
| 2 | *Market* *survey: of products the organization already has and external products available(обзор рынка)* |
| 3 | Developing the prototype |
| 4 | Technologies studying |
| 5 | Developing texture module |
| 6 | Developing rotation module |
| 7 | Developing lighting module |

# Outcomes

| No. | Outcome | Description |
| --- | --- | --- |
| 1 | *Evaluation Criteria:* | *Open source, Speed, Configurable and flexible, lightweight, readable and understandable, easy to use* |
| 2 | *Market Survey :* | *There are a lot of 3D-graphics products that provide same and more advanced functionality? But they`re mostly not free, not opensource and they cant be used in studying purposes. Examples: OpenGL, Scetchup, DirectX* |
| 3 | *Developing the prototype* | *The prototype should be prsented to steering committee, to ensure them, that the team can handle the project and present application responding to all requirements* |
| 4 | Technologies studying | Programming language, hardware as well as framework list should be analysed and evaluated and most suitable options should be chosen  Current stack(Python, pillow, graphics, numpy) |
| 5 | Developing texture module | Texture module should be designed and developed, texture file is given and have to be placed on raw 3D model |
| 6 | Developing Rotation module | An ability to render an object from specific angle and different place should be implemented |
| 7 | Developing lighting module | An ability to place the lightsource in specific place should be implemented |

# Scope

# Pre-Requisites and Interdependencies

**Pre-Requisites for Starting Work**

**Interdependencies**

| No. | Interdependence (by others) | Outcome | Deadline | Person in Charge |
| --- | --- | --- | --- | --- |
| *A-01* | *Study* | *Market Studies* | *21.4.2019* |  |
|  |  |  |  |  |

# Activities

| No. | Outcome | Activities\* | Person in Charge, Collaborator | Time Required (h) | | Deadline | | Status | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *1* | *Evaluation Criteria* | *Transform requirements into evaluation criteria* | *Rodin I.* | *2* | | *15.3.2019* | | *OK* | |
| *2* | *Market Study* | *Determine whether the core organization has suitable products* | *Rodin I., Pashina T.* | *4* | | *17.4.2019* | | *OK* | |
| *4* |  | *Discussion of Interim Outcome* | *Rodin I., Pashina T., Gordeev P.* | *2* | | *18.4.2019* | | *Pending* | |
| 5 |  | Discussion of an ability of product to be competitive with existing ones | Rodin I., Donon Y. |  | |  | | Planned | |
| 6 |  |  |  |  | |  | |  | |
| Total | | | | | 13 | |  | |  |

Notice: \* including quality assurance measures such as walk-throughs, reviews (according to test plan in project management plan)

# Work Assignments

**Human Resources (Hours)**

| Role / Person | Month 1 | Month 2 | Month 3 | Total |
| --- | --- | --- | --- | --- |
| *Rodin I* | *18* | *19* | *19* | *56* |
| *Zdornov M.* | *18* | *19* | *19* | *56* |
| *Gordeev P.* | *18* | *19* | *19* | *56* |
| *Posokha K* | *18* | *19* | *19* | *56* |
| *Pashina T* | *18* | *19* | *19* | *56* |

**Other Resources**

Rooms, IT infrastructure, specific software, etc.

# Presentation of Outcomes

Documents: Chapter structure

Other Outcomes: Textual description