# Collaborative 3D Model Viewing on the Web Second Review

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# Agenda

- Product Backlog
- 2 Definition of Done
- 3 Design Mockup and/or System functionality / Tests
- 4 Gantt Chart
- 5 Reflection
- 6 Demo
- 7 Conclusion





# **Product Backlog**

#### Structure

- Unique ID for references
- Role Desire Benefit
- Ordered by priority

## Progress

	Review 1	Review 2
#	28	33
Done	8	15

## Tool: Google Spreadsheet

- Collaborative editing
- Commenting inside the document

	oduct Backlo	9			
ID	User	Story	Priority	Effort	Done
31	As a developer	I want to finish the documents and presentation for the second review, to show our learning process and convince that our final product will be good.	10	6	
16	As an administrator	I want to have documentation about deployment, so that I can set up the application.	8	4	
14	As a user	I want to use the software on different browsers (Firefox, IE, Chrome,) and devices (Notebook, Tablet, Smartphone), so I can use my favorite device and browser.	8	?	
20	As a lecturer	I want to provide my students a link, so that they can see the model (from a specified position)	7	3	
24	As a user with touchscreen	I want to move the model intuitively with touch-gestures so that I directly know how to move it.	7	3	
33	As a user	I want to have a good performance (low delay, smooth movement) of the view- synchronization, so I see changes imideately and have no abrupt changes.	7	5	
6	As a lecturer	I want to have an interface to upload 3D models (of different formats) to a database, so that other users can view it.	7	7	
22	As a user	I want to synchronize my view with an other device, so that we can view and study the same model together.	7	7	
4	As a lecturer	I want to be able to manipulate (tilt, zoom, move) a 3D model on my device and the students devices at the same time, so that I can show something.	7	8	
19	As a user	I want to have authorized access, so that other people can not modify or delete what I uploaded	6	6	
28	As a lecturer	I want to use the model of the human skull, to show it in my class.	6	6	
10	As a user	I want to see additional information (name, maybe description) for each model, so that I can know what it represents.	6	5	
5	As a lecturer	I want to be able to disable manipulation of the current 3D model by others, so that they may not interrupt the lecture.	5	6	
32	As a developer	I want to have automated tests to ensure correct functionality with low effort.	5	8	
17	As a user	I want to make screenshots of the current view on the model, so I can include it in my slides/exercise solution	4	5	
29	As a user	I want to have a explenation of the controls of the view, to know how controll it imediately	4	4	
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# Definition of Done (improvements since first review)

# Short definition of done Git Usage

- Branching work-flow
- Commit Messages
- Basic and necessary commands
- Dos and Don'ts

## **Programming Conventions**

- JS, HTML, CSS, PHP, MySQL
- Mostly Google Guidelines

## Testing

- Manual system-tests
- Automated front/back-end tests

#### **Gantt Chart**

## **Technologies**

MeshProcessing,
RoleSDK, XAMPP,
X3DOM, Downsampling,
Format conversion



# Design Mockup and/or System functionality / Tests

#### **Frontend**

- Records user interaction on a website
- Executes the recordings automatically
- Extend with assertions and verifications



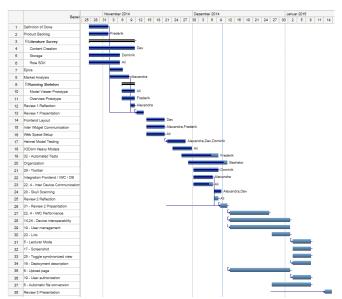
#### Backend

- JavaScript
- Write test suites containing multiple tests (specs)
- Execute tests by calling web page





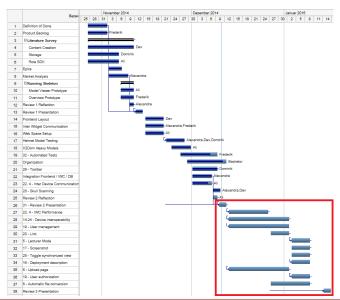
# **Gantt Chart**





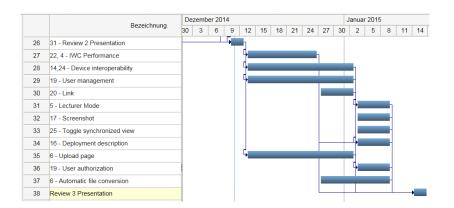
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# **Gantt Chart**





# **Gantt Chart**





## Reflections on Team Process

#### Workflow

- Team meetings are more often
- Live web server, updated every integration
- GitLab issue tracker for internal organization and customer contact



## **New Colleagues**

- Orientation phase completed
- Tasks and responsibilities
- Full time support





## Reflections on Team Process

## Four Areas of Organizational Performance

- Decreasing the learning curve of new employees
- Responding more rapidly to customer needs and inquiries
- Reducing rework and preventing "reinvention of the wheel"
- Spawning new ideas for products and services

Source: IBM Systems Journal, Vol 40, No 4





# Demo







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Conclusion and next steps

Group 2 Dec 12th 2014 @ HENM 2014