Number	Workpackage	Subpackage	Planned Time Period	Working time in days			Description
				minimum	average	maximum	
1	WP 01: Project Management			3	4	5	
1.1		Create Projectdescription	27.03.2017 - 01.04.2017	1	1	1	Brief description of the project. Can be found in our Ilias folder.
1.2		Define Workpackages	01.04.2017 - 10.04.2017	1	2	3	Includes the definition of the Work packages (project-structure- plan. pdf in our Ilias Folder), as well as this time exposure.
1.3		Calculate Risks	01.04.2017 - 10.04.2017	1	1	1	This plan describes the risks, which may arise. Will be found in our Ilias Folder.
2	WP 02: Research			8	12	16	
2.1		General Topic Search	13.03.2017 - 27.03.2017	3	4	5	
2.2		Boundary Extraction	03.04.2017 - 17.04.2017	2	3	4	Search a semi-automatic algorithm and become familiar with its possible implementation
2.3		Algorithm of Johnson	03.04.2017 - 17.04.2017	2	3	4	Understand the algorithm of Johnson and find its mathematical basic functions in a library
2.4		GUI Implementation	03.04.2017 - 17.04.2017	1	2	3	Find out about the possible ways to build a GUI in c++
3	WP 03: Boundary Extraction			8	12	14	
		Implementation of Live-Wire	24.04.2017 - 09.06.2017	8	12	14	Implementation of the interactive Live-Wire tool; interagtion of the tool in the GUI
4	WP 04: Algorithm of Johnson			6	11	18	
4.1		Compute Lighting Vectors as Johnson	10.06.2017 - 10.07.2017	4	7	12	Exctract Features for Lighting Vector Computation, compute Minimizations with Math Lib
4.2		Validate Lighting Vectors	10.06.2017 - 10.07.2017	2	4	6	Measure Angles of each surface and validate them
5	WP 05: GUI			3	5	7	
5.1		Basic Surface	24.04.2017 - 09.06.2017	1	1	1	The GUI frame can be seen on the screen and basic functions, like loading a new image are included
5.2		Boundary Extraction	24.04.2017 - 09.06.2017	1	2	3	The GUI gives the user the possibilty to mark areas in the image to allow the algorithm described under 3 to run the semi-automatic boundary extraction
5.3		Visualisation	24.04.2017 - 09.06.2017	1	2	3	Feautures like object boundaries and the light vectors can be drawn into the images.
6	WP 06: Test Images			2	2	2	
6.1		make images	**15.05.2017-21.05.2017**	1	1	1	Pictures with an infinite light source are needed. The presented objects should differ in number and form as well as viewing angle.
6.2		select images		1	1	1	An adequate number of useful images must be selected
7	WP 07: Functionality check			3	5	7	
7.1		Testing	10.07.2017-14.07.2017	2	2	2	External Parties should be invited to test the application. This includes NO usability study.
7.2		Correction	14.07.2017-17.07.2017	1	3	5	The most pressing issues must be fixed.
8	WP 08: Documentation			12	18	24	
8.1		write documentation	17.07.2017 - 03.08.2017	10	15	20	Description of the actual system as well as its functionality.
8.2		add comments to source code	17.07.2017 - 03.08.2017	1	2	3	Clean up the soucre code and add descriptions.
8.3		print documentation	04.08.2017	1	1	1	Print documentation and submission.
			Estimated Duration	**45**	**69**	**93**	