**Project Plan: TensionCamApp**

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**Brief**

TensionCamApp is an application developed for the company G-coder Systems AB with the purpose to simplify the use of a so-called TensionCam. A TensionCam is a camera device that measures how hard a certain bolt has been torqued. This is done by taking a picture of a dotted pattern on the washer of the bolt that distorts depending on the pressure exposed to the washer. The image is analyzed with an image processing algorithm, provided by the company, which generates a result (e.g. 72 kN). The TensionCamApp is designed to enable users (engineers) to use the camera in their Android device to take a picture of the dotted pattern, to analyze the image and then to get the result in form of the number of blobs on the nut and the sum of their area in pixels. This is accomplished by sending the taken picture to a web-server that analyzes it and sends back the result, which then is displayed to the user.

The company is currently developing a camera that is supposed to be fixed to the washer, and the application is supposed to be the basis of future work involving connecting the fixed camera to the Android device via USB-cable. Furthermure, there are many features that easily can be added easily but at this point we aim towards getting the basics to function properly.

The SDK level has been set to 16 in order to comply with the Android device that the company wishes to use primarily, namely the Sony Xperia Z.

**License (?)**

**Icon attribution**

The TensionCam-logo is designed and owned by G-coder Systems AB.

The camera-symbol is designed by ourselves.

**Features**

* A user should be able to take a picture
* A user should be able to review taken picture
* A user should be able to analyze taken picture
* A user should be able to view the result of the analysis

**Scrum**

Our way of working is based upon the scrum concept, but has to some extent been adapted to our development team. The most significant adaption regards the scrum meetings. Because of our team size and the possibility to synchronize schedules, the daily scrum meetings are being held when needed, often more frequently than once a day.