

Assignment B

Software Engineering in Practice

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- Assignment B Cucumber in Agile Story Test Automation
- Due March 10, 2019 (23:30)
 - Individual or Group of 2 students
 - Automate acceptance testing of a user story related to sending an email with an image attachment
 - Use Gherkin to describe the automation
 - Use Selenium Web Driver to control the application
 - Choose any web based email system (for example gmail)
 - Automate a typical case varying the recipient and image being send

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- Deliverables
 - ***Names, student ids and email address of all students working on the assignment***
 - **A summary all files delivered indicating what is included in each file**
 - ***A statement of the user story indicating who is the user, what does the user want to achieve and why does the user want to achieve it***
 - ***A statement of acceptance tests, in Gherkin, for the story including at least one normal, one alternate and one error flow***
 - ***No navigation in Gherkin scripts***

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 - ***A cucumber feature file including a gherkin script using scenario outline to describe acceptance tests which vary email recipient and files being attached. At least five tests would be required with different attachments and email recipients***
 - ***Source code of step definitions to implement scenario outline feature file.***
 - *Modular code implementation*
 - *Waits for events and does not use fixed time delays*
 - *Includes a method to confirmation that the email was actually sent*
 - *Includes a method to confirm system is in appropriate initial state before tests are run*
 - *Includes a method to ensure the system is returned to the initial state after tests are run*

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 - ***Detailed instructions as to how to install all tools***
 - *Include where to download tools from*
 - *Include explicit version numbers and any dependencies*
 - ***Detailed instructions as to how to run all tests***
 - ***Detailed guidelines explaining how to add new gherkin scripts and associated step definitions***
 - ***A video illustrating the execution of the tests***
 - ***500 to 1000 word description of the test environment and comments on the benefits and risks associated with the approach taken, recommend improvements if this were to be used in a commercial project. Explain what changes would be required if the web based email GUI changed.***