

# CrowSoft Social Contract

*A Social Contract is a set of agreements that a team makes within itself to describe how the team members will behave and work together*

## Meetings

- Stand-ups will occur straight after class on Monday night & before class on a Friday morning.
- If you cannot attend a meeting, let the team know on the crowsoftmsc slack channel.
- At stand up we will use the “pass the ball” method for given updates.
- Updates will be in the form: What I've done, What I plan to do, Impediments
- Sprint planning will occur after class every Tuesday from 9pm to 10pm, unless team agrees to another day due to change of circumstances. **(If class doesn't move to Tuesday, then Sprint planning should move back to Monday)**
- Sprint retro will occur every week and every member to give their retrospective on the csoft\_retrospective channel only.
- Scrum Master to create a Sprint & Retrospective report and uploaded to Git and mailed to group.
- Be on time for Stand Ups and meetings. If you cannot attend or will be late, let the team know on slack.
- Scrum Master to run meetings and team to use “raised hand” to eliminate multiple voices
- Mic's to be on mute during meetings when others speak to eliminate background noise and make conversation as clear as possible for everyone on meeting.
- Mobile phones on silent
- Everyone has equal voice and valuable contribution.
- Always Keep your language and tone professional.
- Be honest.

## Communication

- Channels of communication Slack, Zoom & Mail

### Slack

- crowsoftmsc – For all CrowSoft project conversation
- csoft\_daily\_scrum – For daily stand up comments only (minimum of 2 entries and maximum of 7 a week per sprint.)
- csoft\_retrospective – For Sprint retrospective comments only (once a week)

Zoom – For screen sharing and recording sessions

Mail – For larger statements and attaching files or attachments

- No Slack communications between 10pm and 8am GMT, unless your active on Slack. (Session notification can be disabled).
- Raise a problem as soon as you see it.
- Respect each other and understand differences in knowledge.
- All team documents are to be shared on the GitHub document branch in the appropriate folder.

- There are no silly questions, if you don't understand, ask.
- Share success stories.
- Focus on the positives.
- Learn from our mistakes.
- Don't make assumptions.
- Zero tolerance for bullying.

## DevOps way of working

- If are assigned a job, take ownership of it and keep it up to date.
- Keep JIRA board updated at all times.
- Don't be afraid to ask for help.
- Don't be afraid to give constructive criticism, as long as it is constructive.
- Solve roadblocks within the team. If the impediment can't be solved within the team then give it to the Scrum Master.
- Sprints will start Tuesday's and run for 1 week, depending on Sprint Planning Session day.
- The Scrum Master role rotates each week
- Scrum Master's main job is to look after teams' interest first and if capacity allows can take on stories.
- Communicate with Scrum Master channel on Slack.
- Always include a story for the Scrum Master role in every Sprint.
- Each member of the team will work 10 hours per week, unless they are on vacation.

*Nothing should go into the Social Contract unless it has complete agreement from all team members.*

*Only check the box when document is complete, and everyone is in agreement.*

## Team Members

➤ Michael McFadden	x
➤ Colin Kenny	x
➤ Matthew McColgan	x
➤ Bharathi Gadhiraaju	x
➤ Charles Aylward	x
➤ Joji Pradhan Thokala	x
➤ Mary Walsh McGinty	x
➤ Liam Whorriskey	x

# CrowSoft Sprint0 Report

CSOFT Sprint 0 - Analysis and research for tools and processes for new CrowSoft project. Provide plan for product owner and team for coming weeks.

## Analysis & research findings

### VMs to be set up for Development Environment

- VM 1 to Host Jenkins and continuous integration suite
- Running on Ubuntu 16.04
- VM2 to host Application and DB
- Running on Ubuntu16.04
- Application language C# running on .NET
- DB MySQL

### Reasons given not to use suggested NixOS

- Take a very long time to skill up and install (No one has any experience on NixOS)
- NixOS doesn't use standard Linux commands
- Limited documentation or google seaches available. (NixOS Manual is incomplete)
- You cannot simply upgrade the kernel. a new kernel will have different packages and dependencies
- NixOS is not Cloud ready – doesn't support AWS instance type like m5.\*.
- NixOS and Ubuntu disk space is not much different. NixOS uses more space for package manager.

### Managing Workload

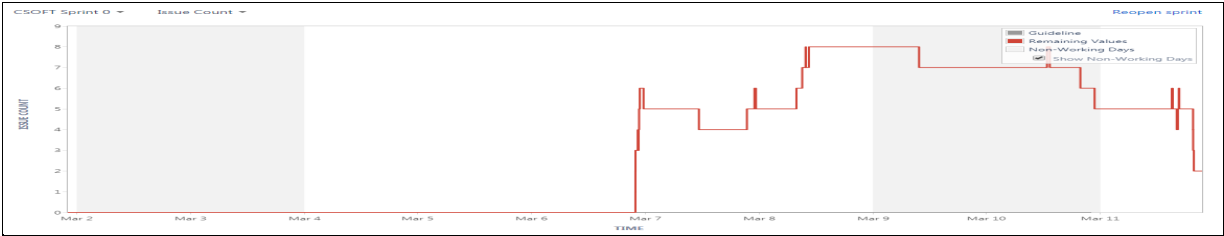
- Estimation established on each team member contributing 10 hours per week
- Using the Fibonacci sequence 1 = 2hrs, 3 = 4.5 hrs, 5 =10 hrs, 8 needs to be broken down

## Moving Forward

CSOFT Sprint 1 - Setting up Infrastructure - Development VM to Host Application & DB - Jenkins VM

Duration: 01/Mar/19 10:05 PM - 11/Mar/19 9:27 PM

Burndown Chart



CSOFT board

Board

Sprint Report

Key	Summary	Issue Type	Priority	Status	Story Points (5 - 30)
CSOFT-3 *	As a new scrum team, we need to define the overall CI/CD process, so we can understand our DevOps environment for the CrowSoft Solution	Story	Medium	DONE	-
CSOFT-4 *	As a new scrum team, we need to identify the tools for continuous integration, so that we know what we need to set up for our solution	Story	Medium	DONE	- → 3
CSOFT-5 *	As a new scrum team, we need to identify the tools for continuous deployment, so that we know what we need to set up for our solution	Story	Medium	DONE	- → 3
CSOFT-7 *	AS A new team member I WANT to research DevOps security SO THAT we can implement it through out the process	Task	Medium	DONE	-
CSOFT-19 *	As CrowSoft engineer I would like to create a user guide document for using git with the CrowSoft project	Story	Low	DONE	- → 2
CSOFT-20 *	As CrowSoft Manager, I need to track effort to report costs back to stakeholders	Story	Medium	DONE	- → 2
CSOFT-21 *	As CrowSoft DevOps engineer I would like to create and document branching strategy to be applied to new project	Story	Medium	DONE	- → 2
CSOFT-22 *	As CrowSoft team member I would like to create a documentation repository on github	Story	Medium	DONE	- → 2
CSOFT-30 *	As a engineer, I would like to create a Sprint Zero document, to show the CrowSoft architecture and high level design for the new solution	Story	Medium	DONE	5
CSOFT-31 *	As a DevOps team member , do a initial project environment setup by analysing tools and processes	Story	High	DONE	-
CSOFT-32 *	As a CrowSoft Engineer, I would like to create a sample Dotnet app and Deploy to NixOS, to test if dotnet will run on NixOS for our final solution	Story	Medium	DONE	- → 5
CSOFT-33 *	As a CrowSoft Engineer, I would like to create a sample video how to install and use Visual Studio Code on Linux, to help other to create and test their own c# code on linux	Story	Medium	DONE	- → 3
CSOFT-37 *	As team member, I want to create a user/Admin functional requirements and non functional requirements	Story	High	DONE	- → 3

Issues Not Completed

View in Issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (- → 10)
CSOFT-6 *	Investigate Jenkins as a pipeline tool	Story	High	IN PROGRESS	- → 5
CSOFT-23 *	As a new team member I Want to research GitHub Branches SO THAT i can implement correctly throughout the process	Story	Medium	TO DO	- → 5

Issues Removed From Sprint

View in Issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (-)
CSOFT-17 *	As a manager at CrowSoft, I would like to review all building cost when cost exceeds €1 million, to indicate future maintenance projects that may be exploited	Story	Medium	TO DO	-

Sprint 0			
Analysis - Prototype - Planning			
		Weely Hours	Cost
Ruth Lennon		0	
Colin Kenny		10	500.00
Michael Mcfadden		10	500.00
WilliamCharles Aylward		10	500.00
Mary Walsh McGinty		10	500.00
Liam Whorriskey		10	500.00
Pradhan Joji Thokala		10	500.00
Bharathi Gadhiraaju		10	500.00
Matthew Mc Colgan		10	500.00
Total		80	4000.00

# CrowSoft Sprint 0 Retrospective

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## **Done Well**

Good research and documentation

## **Not so Well**

Communication needs to be improved

Need better tools for scrum meeting

## **Improve going forward**

Have backlog groomed before sprint planning

During meeting mute while not speaking

C R O W S O F T

# SPRINT 0

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## ARCHITECTURE & DESIGN

Version 1.1

By Charles Aylward

(Updated: 04/05/2019)

LYIT – DEVOPS PROJECT  
MANAGEMENT

# SPRINT 0

## VISION

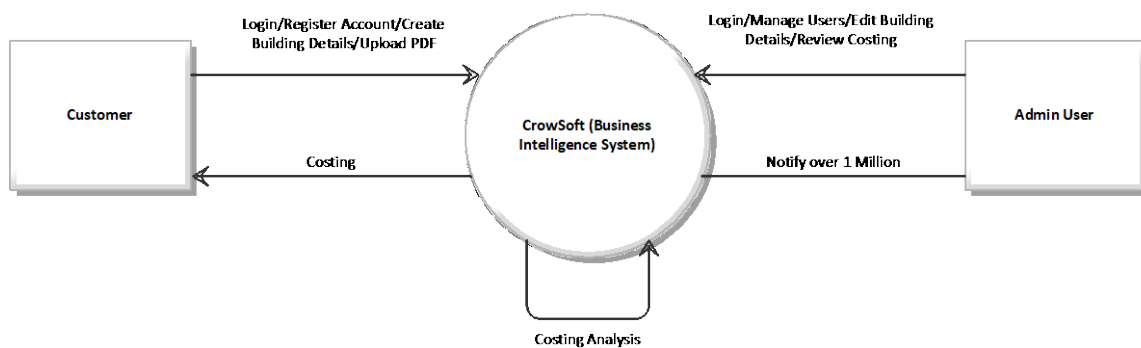
The customer would like an on-line system to take in building details for analysis. CrowSoft is an engineering and tech company. The product that they wish to market is BusIntelligence. The system must take details for buildings and to provide easy to use analysis features. For example, they may wish to have a review all buildings which cost more than €1 million to build and have special features as this may indicate future maintenance projects that may be exploited. Keep the analysis simple. The analysis system should be clean and simple. The system needs to take into account the usual details and present simplified graphics. It must be possible to upload files or images. The administrator should be able to access detailed information and edit as appropriate. Once the client enters details it should not be able to be changed by the client.

The following are CrowSoft's main goals:

- Defining overall Agile and DevOps processes, including scrum roles (Refer to : CrowSoft Agile DevOps Processes - Draft.docx in Documentation on GitHub)
- Define and select tools and infrastructure requirements for CI/CD pipelines
- Setting up environments for development, staging and production, including DevOps tools required for the complete pipeline
- Create product backlog for the Business Intelligence Solution by having sprint planning / requirements meetings with the Product Owner
- Develop and deploy the new Business Intelligence Solution within 10 sprints

## SYSTEM CONTEXT DIAGRAM

As per functional requirements, the following depicts a high level context diagram showing interactions between the new system and actors.



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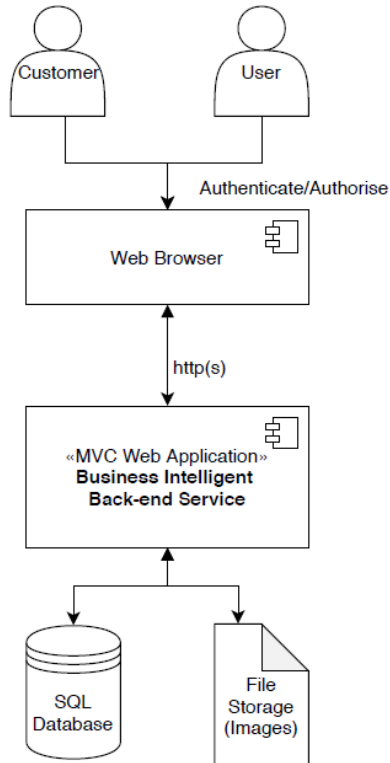
## CONCEPTUAL SOLUTION ARCHITECTURE

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1. The following features is required:
  - a. The system will be access via a web browser
  - b. Security will be implemented by giving customer the ability to create a new account and login details and admin users to manage all users of the system.
  - c. The system will automatically complete a cost analysis and display costing to the customer
  - d. The system should notify the admin user when costs exceed €1 million.
  - e. Functional and non-functional requirements: ***(Refer to: CrowSoft functional non functional requirements.docx in Documentation on GitHub)***
2. Architecture and development decisions:
  - a. Collaboration / Scrum tool using Jira
  - b. Performance management tool
  - c. Unit test tools (Nunit)
  - d. Communication using Slack
  - e. Jenkins for Continuous Integration
  - f. Artifactory for library management
  - g. ~~NixOS~~ Ubuntu 16.04 Linux for development, staging and production servers
  - h. Ansible for configuration management
  - i. MySQL database
  - j. C# language with .Net Core libraries (VSCode or VS Community Edition)



Figure 1- Conceptual Architecture Diagram



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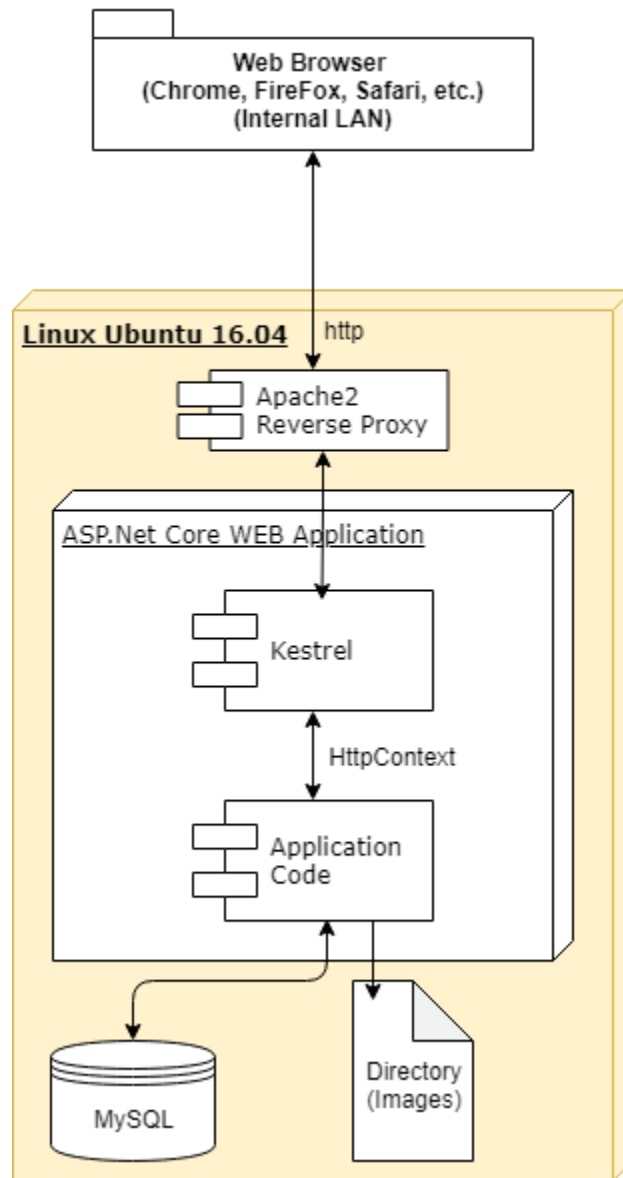
#### SOFTWARE TECHNOLOGY STACK

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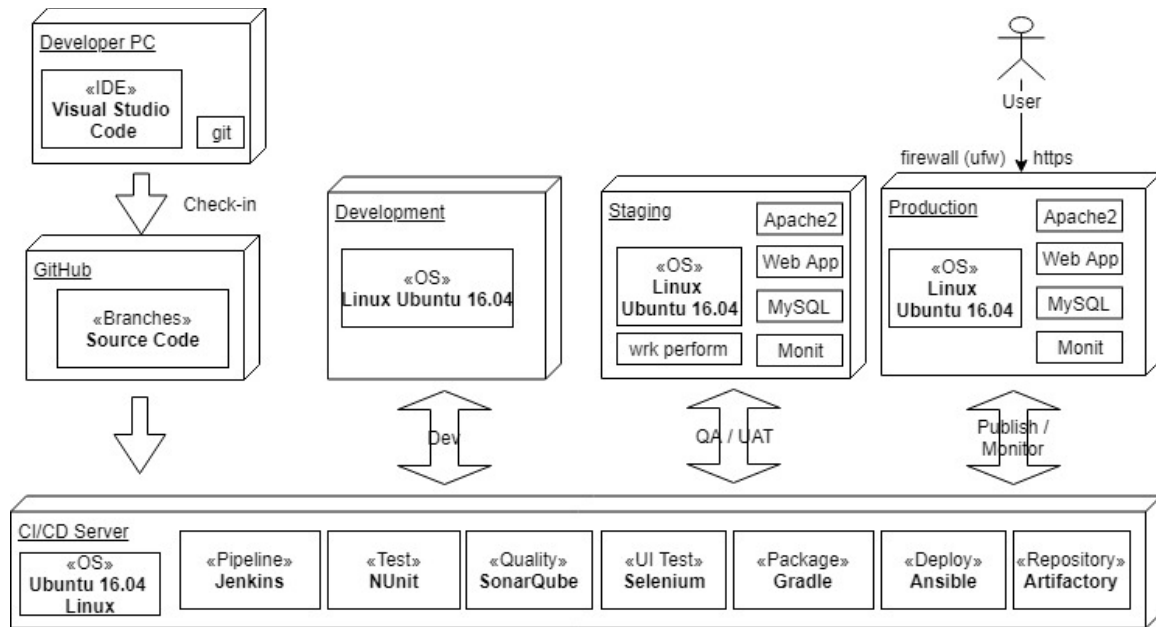
Below find the proposed software technology stack for the main solution:

- Server(s)
  - OS: Ubuntu 16.04 Linux Server
  - Regions: CI/CD Server, Development, Staging and Production
  - 80GB Storage, 8GB Ram, 8 cores
- Web Browser: Chrome, FireFox, Safari, etc.
- Language: C#
- IDE :Visual Studio Code or Visual Studio 2017 Community Edition
- .Net Framework:.Net Core 2.1
- Web Server: Kestrel (open source, cross platform, light weight and a default web server used for Asp.Net Core applications.)
- Application Code: MVC Web Application
- SQL Database: MySQL
- Directory: To store images
- Unit Testing: Nunit
- Logging: log4net
- Code Quality: Visual Studio Code Analysis (Included in IDE)
- Security: OAuth (**TBD**)

Figure 2 - Software Technology Stack



## INFRASTRUCTURE REQUIREMENTS



# CrowSoft Sprint 1 Report

Author: Michael McFadden

Date: 26/03/2019

CSOFT Sprint 1 goal - Setting up Infrastructure - Development VM to Host Application & DB - Jenkins VM & Analysis and research for tools

## Infrastructure

- Set up a VM to Host Jenkins environment
- Install Jenkins on VM server
- Setup Development VM to host application
- Set up .NET on DEV VM, to run and test our applications on the dev server
- Install MySQL on the Application Server
- Setup ssh on the development server, so that we can access the server remotely
- Create an empty project using Dotnet Core, so all developers can add code to the Dotnet project

## Research & Documentation

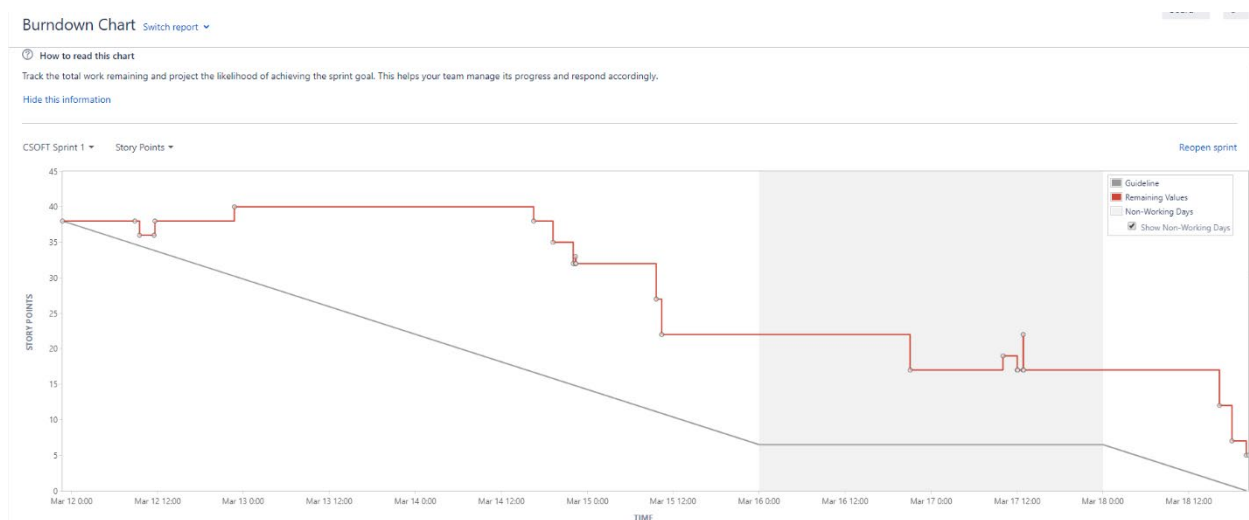
- Research GitHub Branches
- Explore reporting tools to report to product owner team efficiencies.
- Explore Git Integration for Jira to allow better tracking and explore available tools
- Investigate a better way to score effort on planning sessions

## Stories Not completed and carried over into Sprint 2

- configure MySQL on the Application Server
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## Reporting Diagrams

### Burndown chart



Status Report

Status Report

\* Issue added to sprint after start time

Completed Issues

View in Issue navigator

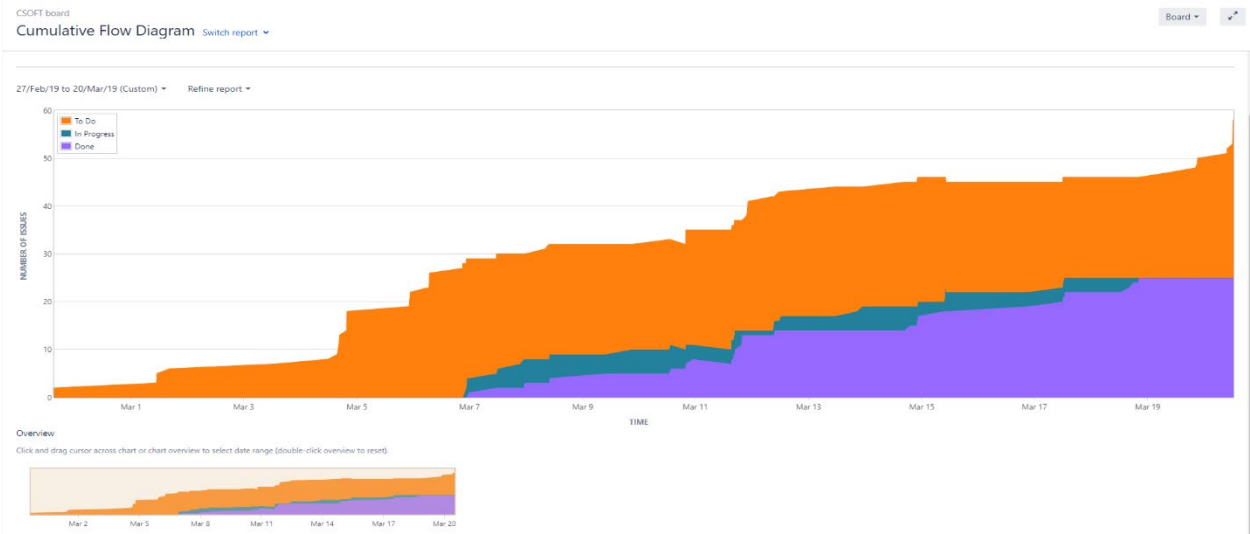
Key	Summary	Issue Type	Priority	Status	Story Points (33 → 43)
CSOFT-6	Investigate Jenkins as a pipeline tool	Story	High	DONE	5
CSOFT-10	As Engineer, I would like to set up a VM to Host Jenkins environment	Story	High	DONE	5
CSOFT-12	As Engineer I would like to install Jenkins on VM server	Story	High	DONE	5
CSOFT-13	As Engineer I would like to setup Development VM to host application	Story	High	DONE	2
CSOFT-23	As a new team member I Want to research GitHub Branches SO THAT I can implement correctly throughout the process	Story	Medium	DONE	5
CSOFT-28	As Scrum Master I want to explore reporting tools to report to product owner team efficiencies.	Story	Low	DONE	3
CSOFT-39	As a Engineer, I would like to Set up .NET on DEV VM, for us to run and test our applications on the dev server	Story	Medium	DONE	3
CSOFT-40	As CrowSoft engineer I would like to install MySQL on the Application Server	Story	Medium	DONE	5
CSOFT-42 *	As a CrowSoft Engineer, I would like to setup ssh on the development server, so that we can access the server remotely	Story	Medium	DONE	-- 2
CSOFT-43 *	AS CrowSoft Engineer I want to explore Git Integration for Jira to allow better tracking and explore available tools	Story	Medium	DONE	-- 2
CSOFT-45 *	As a CrowSoft Engineer, I would like to create a empty project using Dotnet Core, so all developers can add code to the Dotnet project	Story	Medium	DONE	-- 5
CSOFT-46 *	As CrowSoft Scrum Master I want to find a better way to score effort on planning sessions	Story	Medium	DONE	-- 1

Issues Not Completed

View in Issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (5)
CSOFT-41	As CrowSoft engineer I would like to configure MySQL on the Application Server	Story	Medium	TO DO	5

Cumulative Flow Diagram



Velocity Chart





# CrowSoft Sprint 1 Retrospective

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## Done Well

- Got VM's up and running
- Connected to esxi
- Documentation was good - **same as last sprint**
- Created functional & non-functional requirements document
- Dev/Jenkins server setup and MySQL installed on dev.
- Team Communication improved
- Started to work as a team

## Not so Well

- Communication needs to be improved – **same as last sprint**
- Team members need to be more visible on slack
- Prepare backlog before Sprint planning – **same as last sprint**
- Retrospective comments
- Estimating Story points
- Team meetings need structure.

## Improve going forward

- Better communication tool required
- Team Communication to further improve through all channels.

# CrowSoft Sprint 2 Report

## CSOFT Sprint 2 - Configure VMs - Prototype application

### Stories completed

- Integrate the application with Jenkins to deploy updated code
- Design the CrowSoft Database according to our functional requirements
- Introduce a team collaboration tool
- Install Apache server on Dev to host application
- Install and test ARTIFACTORY for as a binary repository manager
- Deploy and test PERFORMANCE TOOLS on our DEV server
- Deploy and test NUNIT testing software on our Jenkins server
- clone our servers and keep regular backups of the 3 environments, DEV, STAGE & PROD
- Create an up to date document of our current servers and their status
- Add a Jenkins ssh key to rlennon GitHub repository to allow connectivity
- Integrate the GitHub with Jenkins to Poll repository for changes
- Install an application service for our dotnet core application, so that we can access the web application remotely
- Create and deploy the database MySQL script, so we have the tables available to development
- Increase RAM and Processor on the Jenkins server, so that it improves server performance

### Stories that where in progress

- Deploy and test ANSIBLE for automation on the Jenkins server
- Keep documents in order SO THAT relevant information is easy to find.

### Stories that did not start

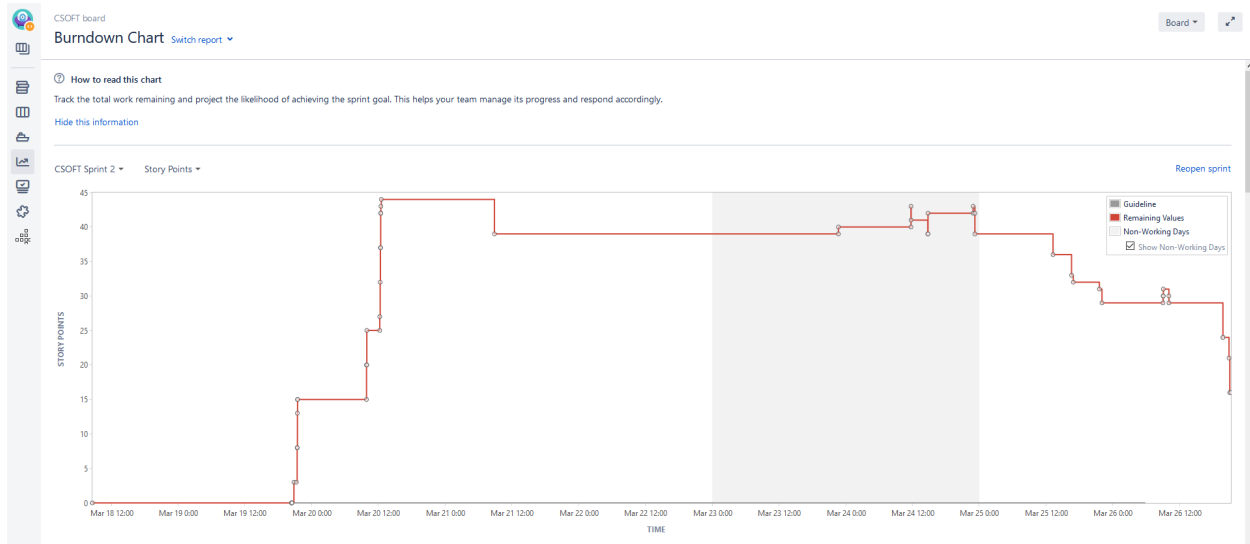
- Deploy and test SELENIUM on our DEV server
- Add webhook to GitHub to allow Jenkins to trigger build

### Moving Forward

Sprint 2 goals are combined with Sprint 3 goals to finish off infrastructure setup



## Burndown Chart



## Status report

CSoft board

Sprint Report

Switch report

Dashboard

Report

Completed Issues

View in issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (8 – 36)
CSOFT-34 *	As a CrowdSoft engineer , I want to integrate the application with Jenkins to deploy updated code	Story	High	DONE	-- 3
CSOFT-47 *	As a CrowdSoft Engineer, I would like to design the CrowdSoft Database according to our functional requirements, so that we can create a script for the database on MySQL	Story	Medium	DONE	-- 5
CSOFT-48 *	As Scrum Master I would like to introduce a team collaboration tool that works for sprint planning and stand ups	Story	Medium	DONE	-- 3
CSOFT-50 *	As CrowdSoft engineer I would like install Apache server on Dev to host application	Story	Medium	DONE	-- 2
CSOFT-53 *	As a CrowdSoft engineer I WANT to install and test ARREFACTORY for as a binary repository manager	Story	Medium	DONE	-- 2
CSOFT-55 *	As a CrowdSoft engineer I WANT to deploy and test PERFORMANCE TOOLS on our DEV server	Story	Medium	DONE	5
CSOFT-56 *	As a CrowdSoft eng Issue added to sprint after start time Testing software on our Jenkins server	Story	Medium	DONE	-- 5
CSOFT-57 *	As a CrowdSoft engineer I WANT to done our servers and keep regular backups of the 3 environments, DEV, STAGE & PROD	Story	Medium	DONE	-- 1
CSOFT-58 *	As a CrowdSoft engineer I want to create an up to date document of our current servers and their status	Story	Medium	DONE	1
CSOFT-59 *	As CrowdSoft Repository owner I need to add a Jenkins ssh key to rlennon github repository to allow connectivity	Story	High	DONE	-- 1
CSOFT-60 *	As a CrowdSoft engineer , I want to integrate the GitHub with Jenkins to Pull repository for changes.	Story	Medium	DONE	-- 3
CSOFT-61 *	As a CrowdSoft Engineer, I would like to install a application service for our detneth core application, so that we can access the web application remotely	Story	Medium	DONE	-- 3
CSOFT-63 *	As a CrowdSoft Engineer, I would like to create and deploy the database MySQL script, so we have the tables available to development	Story	Medium	DONE	-- 1
CSOFT-64 *	As a CrowdSoft Engineer, I would like to increase RAM and Processor on the Jenkins server, so that it improve server performance	Story	Medium	DONE	-- 1

Issues Not Completed

View in issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (3 – 16)
CSOFT-51 *	As a CrowdSoft engineer I WANT to deploy and test ANSIBLE for automation on the Jenkins server	Story	Medium	IN PROGRESS	-- 5
CSOFT-52 *	As a CrowdSoft team member I WANT to keep documents in order SO THAT relevant information is easy to find.	Story	Medium	IN PROGRESS	-- 5
CSOFT-54 *	As a CrowdSoft engineer I WANT to deploy and test SELENIUM on our DEV server	Story	Medium	TO DO	5
CSOFT-42 *	As CrowdSoft Repository owner I would like to add webhook to github to allow Jenkins to trigger build	Story	Medium	TO DO	-- 1

Issues Removed From Sprint

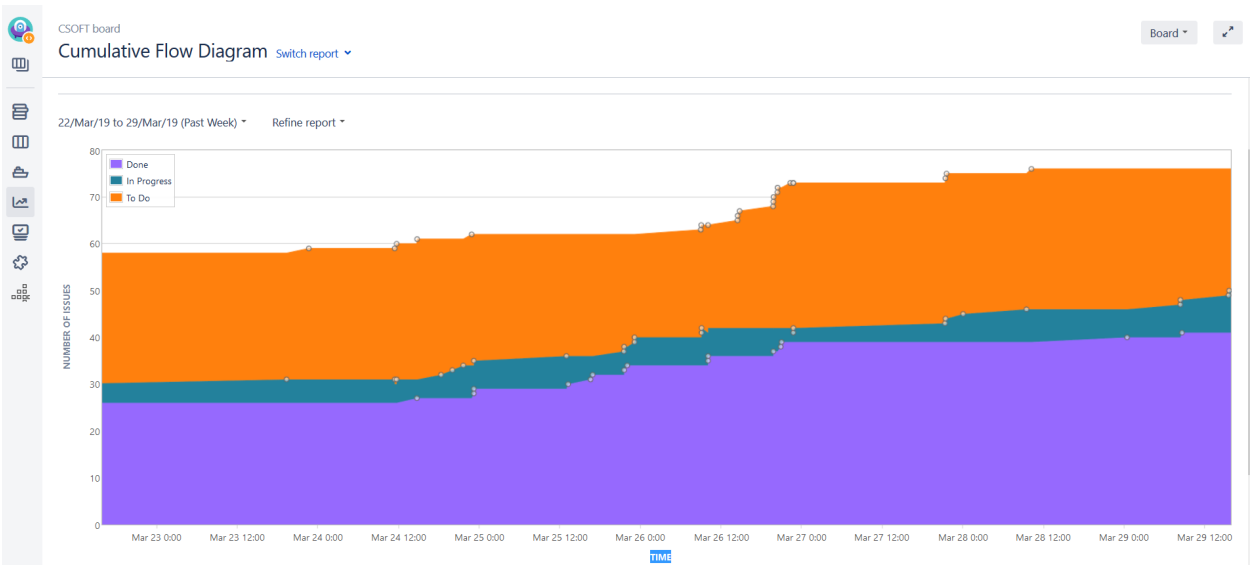
View in issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (-)
CSOFT-11 *	Duplicate - As a Developer, I would like to create prototype for application	Story	High	TO DO	-
CSOFT-38 *	Create VM to Host Staging Environment	Story	High	TO DO	-

# Velocity Chart



# Cumulative flow chart



# CrowSoft Sprint 2 Retrospective

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## Done Well

- Documentation was good - **we continue to do this well**
- New collaboration tool for screen sharing & recording
- Communication improving with every Sprint
- More Infrastructure work carried out
- Sprint planning structure well organised
- Teamwork improving

## Not so Well

- Estimation on stories
- Full team participation in meetings/work
- Team members need to be more visible on slack

## Improve going forward

- Structures of meetings
- Realistic/achievable Sprint goals & stories
- Teamwork & attendance at meetings
- Reach out to team members if they are struggling
- All members to use Slackbot more often

# CrowSoft Sprint 2 Retrospective

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## Done Well

- Documentation is good - **we continue to do this well**
- Good communication in scrum Zoom sessions
- infrastructure setup near completion
- Communication throughout the scrum and sprint planning meetings
- Meetings where productive
- Use of JIRA is improving with each sprint
- Starting to think of the bigger picture - tying in all the components together

## Not so Well

- Less stories where completed due to students focussing on test
- Lack of daily scrum updates on slack
- JIRA Updates (Test Week)
- Update Jira stories with progress during the sprint
- Over estimated amount of work that could be carried out knowing we had a test coming up.

## Improve going forward

- Everyone needs to log their daily scrum updates on Slack, even if it's just in progress
- Let the team/scrum master know if you are going to be late
- scrum master can reach out to the individual if necessary to decide something ( it's not like tracking , yet just to have the update ) I also don't know it's agile , above all we are working for the project and not just for the process
- We can reach out to the team members if in case we stuck
- Keep working on our estimation
- Knowledge share
- If JIRA stories have good comments and Documentation attached it would be beneficial to the team to understand works being carried out.

# CrowSoft Sprint 4 Retrospective

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## Done Well

- Audit/presentation session.
- A good takeaway from meeting that we need security plan
- infrastructure setup near completion
- Communication throughout the scrum and sprint planning meetings
- Meetings where productive
- Use of JIRA is improving with each sprint, added EPICS to the sprints
- Starting to think of the bigger picture - tying in all the components together

## Not so Well

- Being locked out of Jenkins over the weekend
- Quite a few stories were carried over (mine included had difficulty implementing what I was trying to do and did not reach out for help)
- Also had tunnel vision on one job and ignored a simple job that was carried over.
- Documents branch needs additional branch

## Improve going forward

- Update Jira stories if you are experiencing problems : urls being used /errors received / locations where items are
- This would help trouble shooting having a good base to start a discussion (look for help)

# CrowSoft Sprint 5 Report

Liam Whoriskey

## CSOFT Sprint 5 - Configure VMs - Prototype application

### Stories completed

- CSOFT-11  
As a Developer, I would like to create prototype for application
- CSOFT-25  
As a USER i want the ability to create an account SO THAT i can review building analysis
- CSOFT-38  
Create VM to Host Staging Environment
- CSOFT-75  
As Scrum master I want to add Components to JIRA to help identify which type of jobs/work is taking priority to the project.
- CSOFT-78  
As a CrowsSoft Engineer, I would like to setup Gradle as a build tool connected to Artifactory, so that we can build and deploy packages in Artifactory to production
- CSOFT-87  
As a CrowSoft Engineer, I would like to investigate SonarCube, so we can have a tool for code quality
- CSOFT-95  
Issue with access control on Jenkins
- CSOFT-96  
As CrowSoft engineer I would like start setting up the pipeline on Jenkins so that automated builds will run
- CSOFT-100 \*  
As a CrowSoft Engineer, I would like to create coding standards, so that we can all use the same coding standards

### Stories that where in progress

- CSOFT-54  
As a CrowSoft engineer I WANT to deploy and test SELENIUM on our DEV server
- CSOFT-62  
As CrowSoft Repository owner I would like to add webhook to github to allow Jenkins to trigger build
- CSOFT-97 As a CrowSoft Designer i would like to create a Graphic Mockup of the app SO THAT use steps have visual representation.

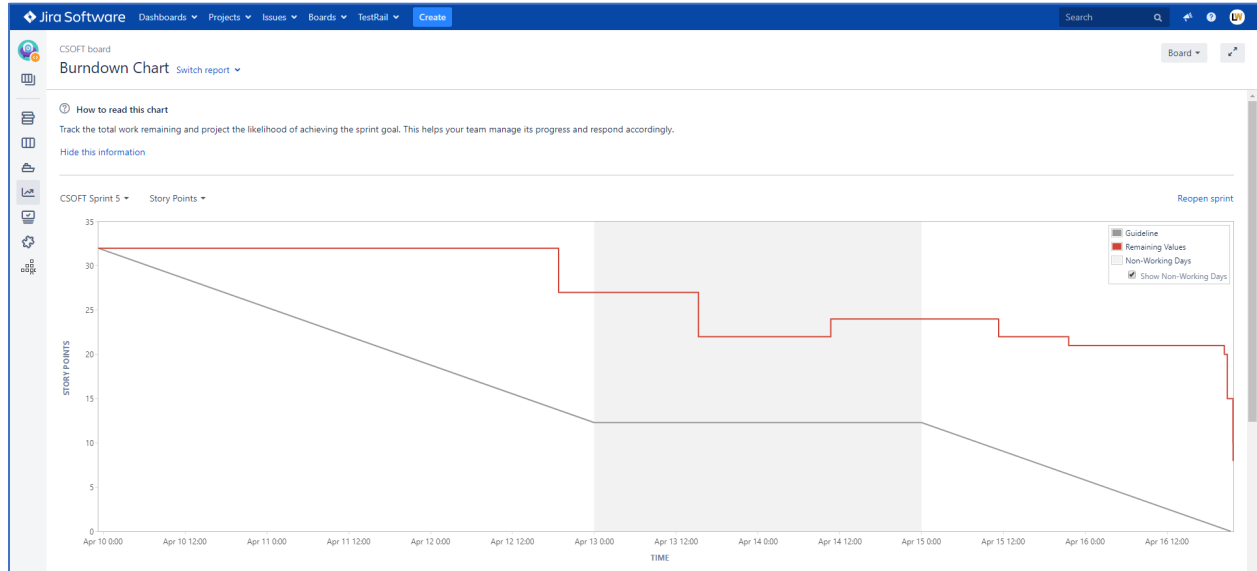
## Stories that did not start

- All started

## Moving Forward

Three incomplete stories carried to the next sprint.

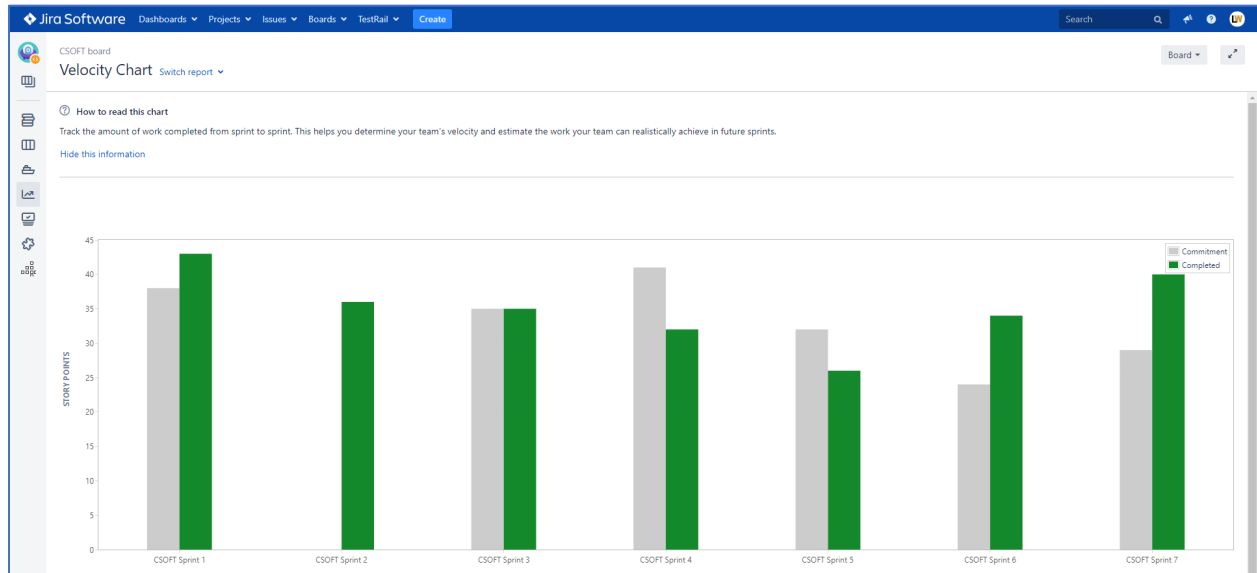
## Burndown Chart



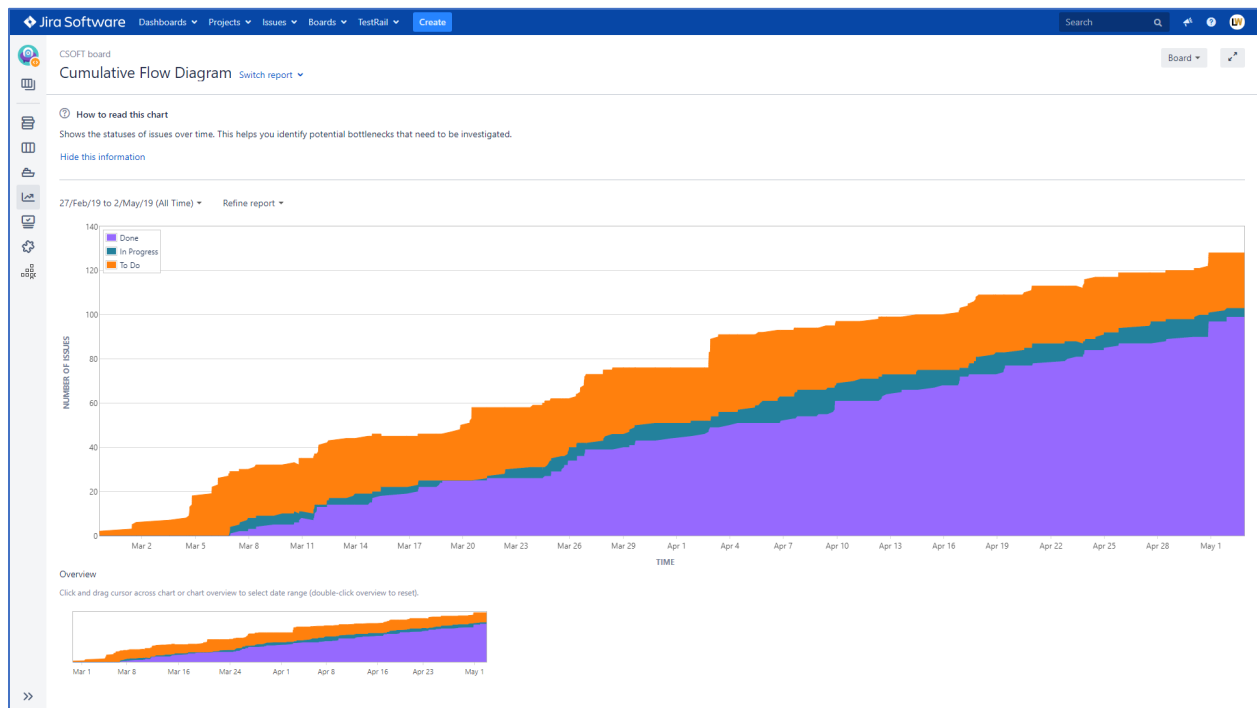
## Status report

Status Report						* Issue added to sprint after start time
Completed Issues						View in Issue navigator
Key	Summary	Issue Type	Priority	Status	Story Points (30 -- 40)	
CSOFT-24	As a USER i want to enter building details SO THAT analysis can be completed	Story	Medium	DONE	5	
CSOFT-54	As a CrowSoft engineer I WANT to deploy and test SELENIUM on our DEV server	Story	Medium	DONE	5	
CSOFT-76 *	AS A CrowSoft engineer I WANT to create a test run to do a gradle build from github and push to Artifactory on the Build_Jenkins_Gold server SO THAT a pipeline can be started	Story	Medium	DONE	-- 5	
CSOFT-101	AS A team member I WANT to create a Disaster Recovery plan for the Project	Story	Medium	DONE	3	
CSOFT-113	AS A team member I WANT to create a PowerPoint SO THAT we can present to the client	Story	Medium	DONE	1	
CSOFT-115	As CrowSoft engineer I would like start setting up the pipeline on Jenkins so that automated builds will run	Story	Medium	DONE	3	
CSOFT-116	As CrowSoft engineer I would like to set up an Ansible playbook to allow jenkins to connect to Dev server	Story	Medium	DONE	5	
CSOFT-117 *	As a CrowSoft Engineer, I would like to secure our Staging Environment with SSL and Firewall, so that we secure our app and database	Story	Medium	DONE	-- 3	
CSOFT-118 *	AS A CrowSoft Engineer I WANT to install Build Scan on the Jenkins Gold server SO THAT the builds can be analysed	Story	Medium	DONE	3	
CSOFT-119 *	AS A CrowSoft Engineer I WANT to start a test pipeline SO THAT I can get the Github, Gradle build and push to Artifactory to work in the pipeline	Story	Medium	DONE	5	
CSOFT-120 *	As a CrowSoft Engineer, I would like to create a Production Server, so that we can host our web application	Story	High	DONE	-- 1	
CSOFT-121 *	AS A team member I WANT to create a Video overview SO THAT we can present to the client	Story	Medium	DONE	-- 1	
Issues Not Completed						View in Issue navigator
Key	Summary	Issue Type	Priority	Status	Story Points (7 -- 12)	
CSOFT-14 *	As a customer, I would like to enter building header on an on-line system, so I add building features / details for a new building	Story	Medium	IN PROGRESS	-- 5	
CSOFT-26	As a USER i want to the ability to upload files SO THAT the analysis can be assisted	Story	Medium	IN PROGRESS	3	
CSOFT-62	As CrowSoft Repository owner I would like to add webhook to github to allow Jenkins to trigger build	Story	Medium	IN PROGRESS	1	
CSOFT-114	As a crowsoft team member I want to run sonar code analysis for MS build application	Story	High	IN PROGRESS	3	

## Velocity Chart



## Cumulative flow chart





# Sprint 5 Retrospective

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Liam Whorriskey

## Done Well

- Documentation is continually improving
- Zoom sessions are a great addition
- Improved communication within the scrum
- Meetings are now recorded
- Components added to JIRA
- Help videos are being created and documented
- Feedback from Audit

## Not so Well

- Underestimation of stories resulting in carrying to the next sprint.
- Daily scrum updates.
- Completion of tasks on JIRA
- Progress recording/updates in JIRA

## Improve going forward

- Log daily scrum to slack
- Ask for help when there is an issue
- More focus in scrum meetings (discuss issues outside of scrum)
- Record progress in JIRA
- Team involvement in presentations (feedback)
- Improve on the use of slack

# Sprint 5 Report – Apr 16<sup>th</sup> – 23<sup>rd</sup>

## Stories Completed

- CSOFT-97 - As a CrowSoft Designer I would like to create a Graphic Mockup of the app SO THAT use steps have visual representation.
- CSOFT-102 – As a DevOps team member , Create a sonarqube server , to review code quality and code coverage
- CSOFT-103 – As CrowSoft engineer I would like start setting up the pipeline on Jenkins so that automated builds will run
- CSOFT-104 – As a CrowSoft Administrator, I would like to add the configuration table for default building features, so that building features can be selected when a customer enters building details
- CSOFT-105 – As a CrowSoft Engineer, I would like to update the Database Design documentation, so that we can reflect the changes of the AspNetUsers added
- CSOFT-106 – As CrowSoft Engineer, I would like to add role-based security on the UI, so that we can limit access to roles
- CSOFT-107 – AS A CrowSoft engineer I WANT to install and configure a backup plugin in Jenkins SO THAT we can backup files in Jenkins
- CSOFT-108 – AS A CrowSoft engineer I WANT to install and configure an Audit Trail plugin in Jenkins SO THAT we have a record of who works in Jenkins
- CSOFT-109 – As A CrowSoft Team Member, I WOULD like to add access requirements for our reviewer, SO THAT the reviewer has access to our tools and servers
- CSOFT-110 – As a CrowSoft Engineer, I would like to create a Selenium Test Project using Visual Studio Code, so that we can run tests for the UI on our Web Application
- CSOFT-111 – AS A DevOps team member I WANT documentation SO THAT I can understand what is ongoing within the project.
- CSOFT-112 – AS A DevOps team member I WANT document videos (how to) SO THAT I can understand how to complete tasks/actions within the project.

## Stories In Progress

- CSOFT-54 - As a CrowSoft engineer I WANT to deploy and test SELENIUM on our DEV server
- CSOFT-62 - As CrowSoft Repository owner I would like to add webhook to github to allow Jenkins to trigger build
- CSOFT-113 - AS A team member I WANT to create a PowerPoint SO THAT we can present to the client

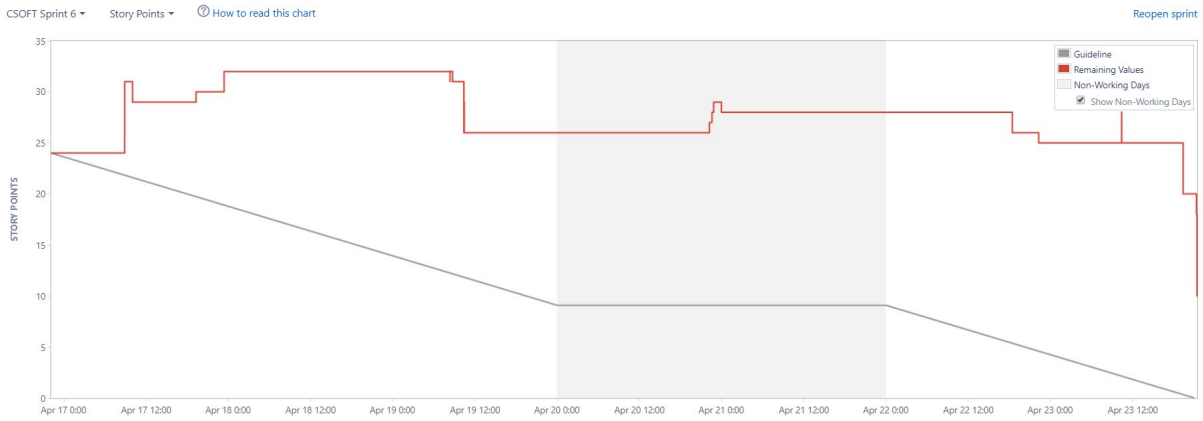
## Stories Not Started

- CSOFT-101 - AS A team member I WANT to create a Disaster Recovery plan for the Project

## Moving Forward

Three stories carried forward; one story not started.

# Burndown Chart



# Status Report

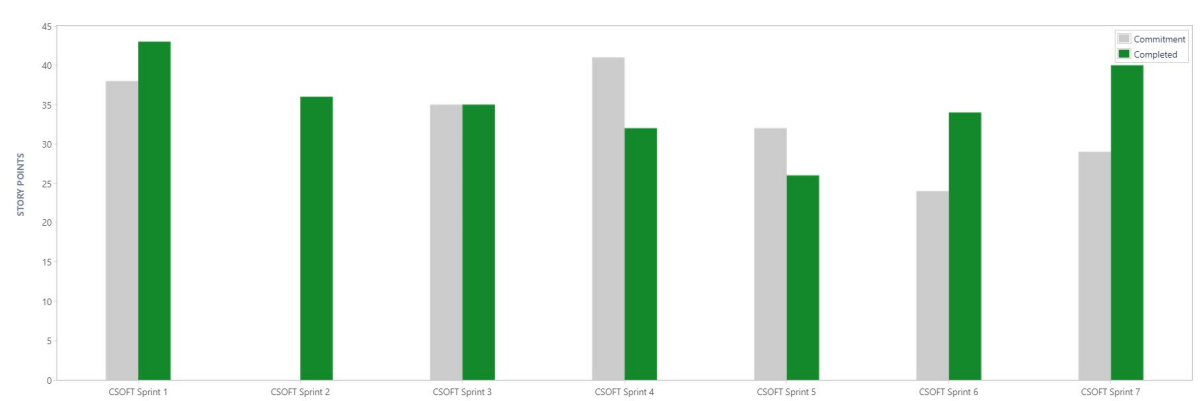
Completed Issues View in Issue navigator

Key	Summary	Issue Type	Priority	Status	Story Points (19 → 34)
CSoft-97	As a CrowSoft Designer i would like to create a Graphic Mockup of the app SO THAT use steps have visual representation.	Story	Medium	DONE	2
CSoft-102	As a DevOps team member , Create a sonarqube server , to review code quality and code coverage	Story	Medium	DONE	5
CSoft-103	As CrowSoft engineer i would like start setting up the pipeline on Jenkins so that automated builds will run	Story	Medium	DONE	8
CSoft-104 *	As a CrowSoft Administrator, I would like to add the configuration table for default building features, so that building features can be selected when a customer enters building details	Story	Medium	DONE	-- → 5
CSoft-105 *	As a CrowSoft Engineer, I would like to update the Database Design documentation, so that we can reflect the changes of the AspNetUsers added	Story	Medium	DONE	-- → 2
CSoft-106 *	As CrowSoft Engineer, I would like to add role-based security on the UI so that we can limit access to roles	Story	Medium	DONE	-- → 3
CSoft-107 *	AS A CrowSoft engineer i WANT to install and configure a backup plugin in Jenkins SO THAT we can backup files in Jenkins	Story	Medium	DONE	1
CSoft-108 *	AS A CrowSoft engineer i WANT to install and configure an Audit Trail plugin in Jenkins SO THAT we have a record of who works in Jenkins	Story	Medium	DONE	-- → 1
CSoft-109 *	As A CrowSoft Team Member, I WOULD like to add access requirements for our reviewer, SO THAT the reviewer has access to our tools and servers	Story	Medium	DONE	2
CSoft-110 *	As a CrowSoft Engineer, I would like to create a Selenium Test Project using Visual Studio Code, so that we can run tests for the UI on our Web Application	Story	Medium	DONE	-- → 3
CSoft-111 *	AS A DevOps team member i WANT documentation SO THAT i can understand what is ongoing within the project.	Story	Medium	DONE	1
CSoft-112 *	AS A DevOps team member i WANT document videos (how to) SO THAT i can understand how to complete tasks/actions within the project.	Story	Medium	DONE	-- → 1

Issues Not Completed View in Issue navigator

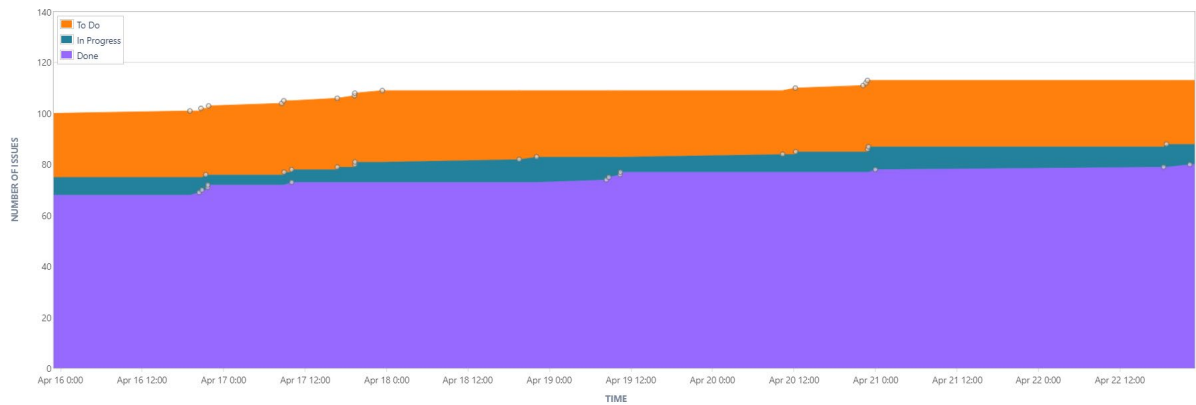
Key	Summary	Issue Type	Priority	Status	Story Points (9 → 10)
CSoft-54	As a CrowSoft engineer i WANT to deploy and test SELENIUM on our DEV server	Story	Medium	IN PROGRESS	5
CSoft-62	As CrowSoft Repository owner I would like to add webhook to github to allow Jenkins to trigger build	Story	Medium	IN PROGRESS	1
CSoft-101	AS A team member i WANT to create a Disaster Recovery plan for the Project	Story	Medium	TO DO	3
CSoft-113 *	AS A team member i WANT to create a PowerPoint SO THAT we can present to the client	Story	Medium	IN PROGRESS	-- → 1

# Velocity Chart



# Cumulative Flow Diagram

16/Apr/19 to 23/Apr/19 (Custom)   Refine report   [How to read this chart](#)



# Sprint 7 Report – Apr 23<sup>rd</sup> – 30<sup>rd</sup>

Bharathi Gadhiraaju – Author

## Stories Completed

- CSOFT-24 As a USER i want to enter building details SO THAT analysis can be completed
- CSOFT-54 As a CrowSoft engineer I WANT to deploy and test SELENIUM on our DEV server
- CSOFT-76 AS A CrowSoft engineer I WANT to create a test run to do a gradle build from github and push to Artifactory on the Build\_Jenkins\_Gold server SO THAT a pipeline can be started
- CSOFT-101 AS A team member I WANT to create a Disaster Recovery plan for the Project
- CSOFT-113 AS A team member I WANT to create a PowerPoint SO THAT we can present to the client
- CSOFT-115 As CrowSoft engineer I would like start setting up the pipeline on Jenkins so that automated builds will run
- CSOFT-116 As CrowSoft engineer I would like to set up an Ansible playbook to allow jenkins to connect to Dev server
- CSOFT-117 As a CrowSoft Engineer, I would like to secure our Staging Environment with SSL and Firewall, so that we secure our app and database
- CSOFT-118 AS A CrowSoft Engineer I WANT to install Build Scan on the Jenkins Gold server SO THAT the builds can be analysed
- CSOFT-119 AS A CrowSoft Engineer I WANT to start a test pipeline SO THAT I can get the Github, Gradle build and push to Artifactory to work in the pipeline
- CSOFT-120 As a CrowSoft Engineer, I would like to create a Production Server, so that we can host our web application
- CSOFT-121 AS A team member I WANT to create a Video overview SO THAT we can present to the client

## Stories In Progress

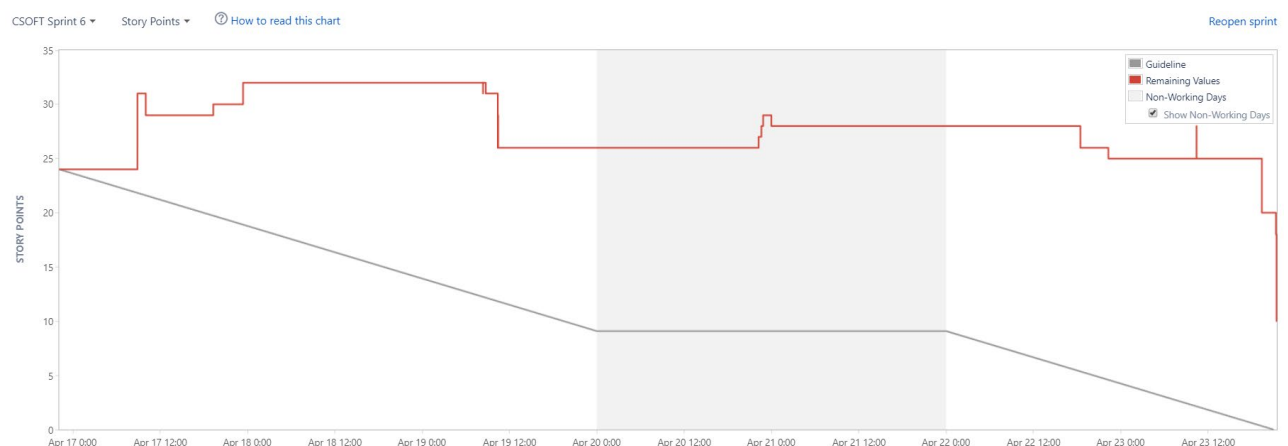
- CSOFT-14 As a customer, I would like to enter building header on an on-line system, so I add building features / details for a new building

- CSOFT-26 As a USER i want to the ability to upload files SO THAT the analysis can be assisted
- CSOFT-62 As CrowSoft Repository owner I would like to add webhook to github to allow Jenkins to trigger
- CSOFT-114 As a crowsoft team member I want to run sonar code analysis for MS build application

## Moving Forward

Four stories carried forward

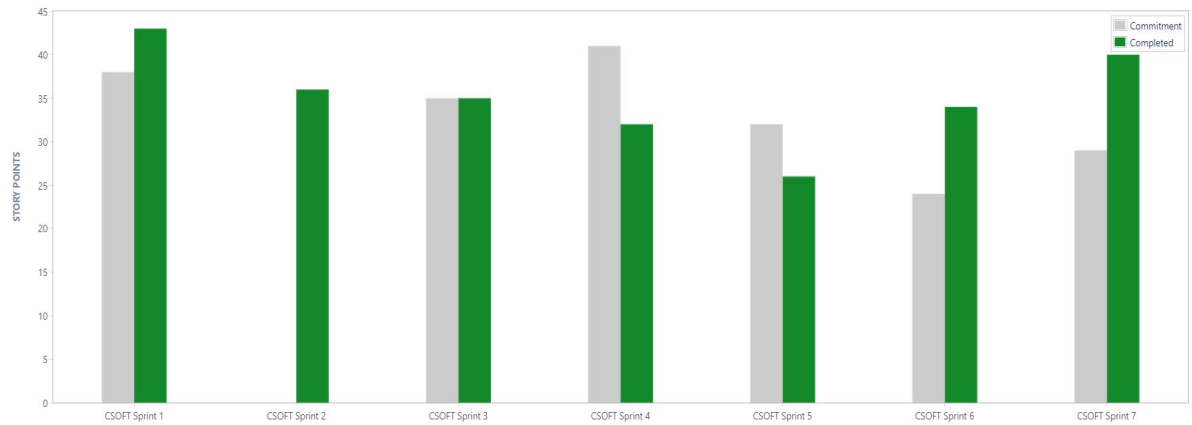
## Burndown Chart



## Status Report

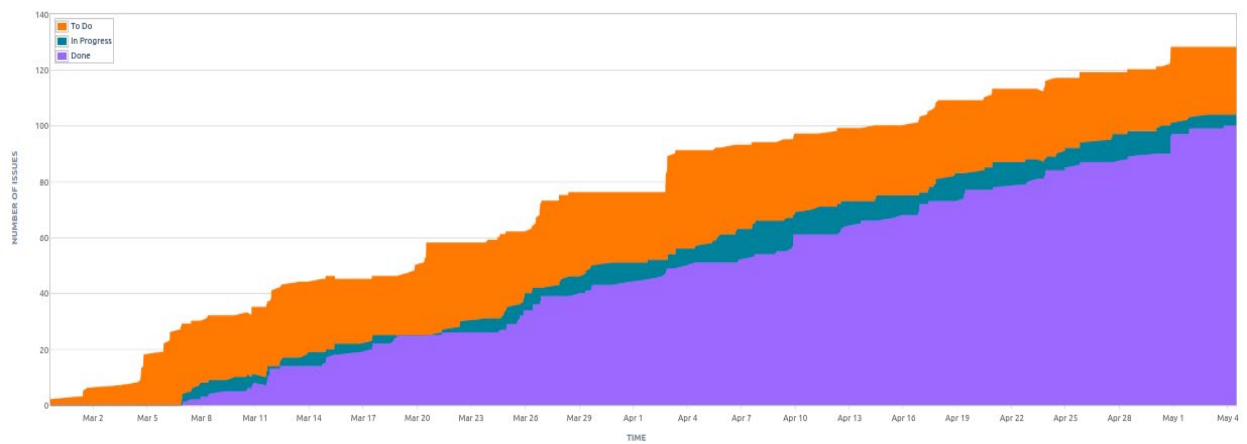
Completed Issues						<a href="#">View in Issue navigator</a>
Key	Summary	Issue Type	Priority	Status	Story Points (30 ... 40)	
CSOFT-24	As a USER i want to enter building details SO THAT analysis can be completed	Story	Medium	DONE	5	
CSOFT-54	As a CrowSoft engineer I WANT to deploy and test SELENIUM on our DEV server	Story	Medium	DONE	5	
CSOFT-76 *	As A CrowSoft engineer I WANT to create a test run to do a gradle build from github and push to Artifactory on the Build_Jenkins_Gold server SO THAT a pipeline can be started	Story	Medium	DONE	- ... 5	
CSOFT-101	As A team member I WANT to create a Disaster Recovery plan for the Project	Story	Medium	DONE	3	
CSOFT-113	As A team member I WANT to create a PowerPoint SO THAT we can present to the client	Story	Medium	DONE	1	
CSOFT-115	As CrowSoft engineer I would like start setting up the pipeline on Jenkins so that automated builds will run	Story	Medium	DONE	3	
CSOFT-116	As CrowSoft engineer I would like to set up an Ansible playbook to allow jenkins to connect to Dev server	Story	Medium	DONE	5	
CSOFT-117 *	As a CrowSoft Engineer, I would like to secure our Staging Environment with SSL and Firewall, so that we secure our app and database	Story	Medium	DONE	- ... 3	
CSOFT-118 *	As A CrowSoft Engineer I WANT to install Build Scan on the Jenkins Gold server SO THAT the builds can be analysed	Story	Medium	DONE	3	
CSOFT-119 *	As A CrowSoft Engineer I WANT to start a test pipeline SO THAT I can get the Github, Gradle build and push to Artifactory to work in the pipeline	Story	Medium	DONE	5	
CSOFT-120 *	As a CrowSoft Engineer, I would like to create a Production Server, so that we can host our web application	Story	High	DONE	- ... 1	
CSOFT-121 *	As A team member I WANT to create a Video overview SO THAT we can present to the client	Story	Medium	DONE	- ... 1	
Issues Not Completed						<a href="#">View in Issue navigator</a>
Key	Summary	Issue Type	Priority	Status	Story Points (7 ... 12)	
CSOFT-14 *	As a customer, I would like to enter building header on an on-line system, so I add building features / details for a new building	Story	Medium	IN PROGRESS	- ... 5	
CSOFT-26	As a USER i want to the ability to upload files SO THAT the analysis can be assisted	Story	Medium	IN PROGRESS	3	
CSOFT-62	As CrowSoft Repository owner I would like to add webhook to github to allow Jenkins to trigger build	Story	Medium	IN PROGRESS	1	
CSOFT-114	As a crowsoft team member I want to run sonar code analysis for MS build application	Story	High	IN PROGRESS	3	

## Velocity Chart



## Cumulative Flow Diagram

27/Feb/19 to 4/May/19 (All Time) ▾ Refine report ▾



# Sprint 7 Retrospective

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Bharathi Gadhiraaju

## **Done Well**

- Documentation is continually improving
- Team Presentation was good
- Team Collaboration for the presentation was appreciated

## **Not so Well**

- Still faced network issues
- Catching up other team members works takes lot of time

## **Improve going forward**

- Record progress in JIRA
- Set all documents on all the work has been done
- Improve on the use of slack