



SNS COLLEGE OF TECHNOLOGY

Coimbatore-37.

An Autonomous Institution



COURSE NAME : 19CST201-Agile Software Engineering

II YEAR/ III SEMESTER

Topic: Product and Sprint Backlogs,

Ms.G.Swathi

Assistant Professor

Department of Computer Science and Engineering



Product Backlogs

A product backlog is a list of items to be done. Items are ranked with feature descriptions. In an ideal scenario, items should be broken down into user stories.

Importance of Product Backlog:

- It is prepared so that estimates can be given to each and every feature.
- It helps in planning the roadmap for the product.
- It helps in re-ranking the features so that more value can be added to the product.
- It helps in determining what to prioritize first. Team ranks the item and then builds value.



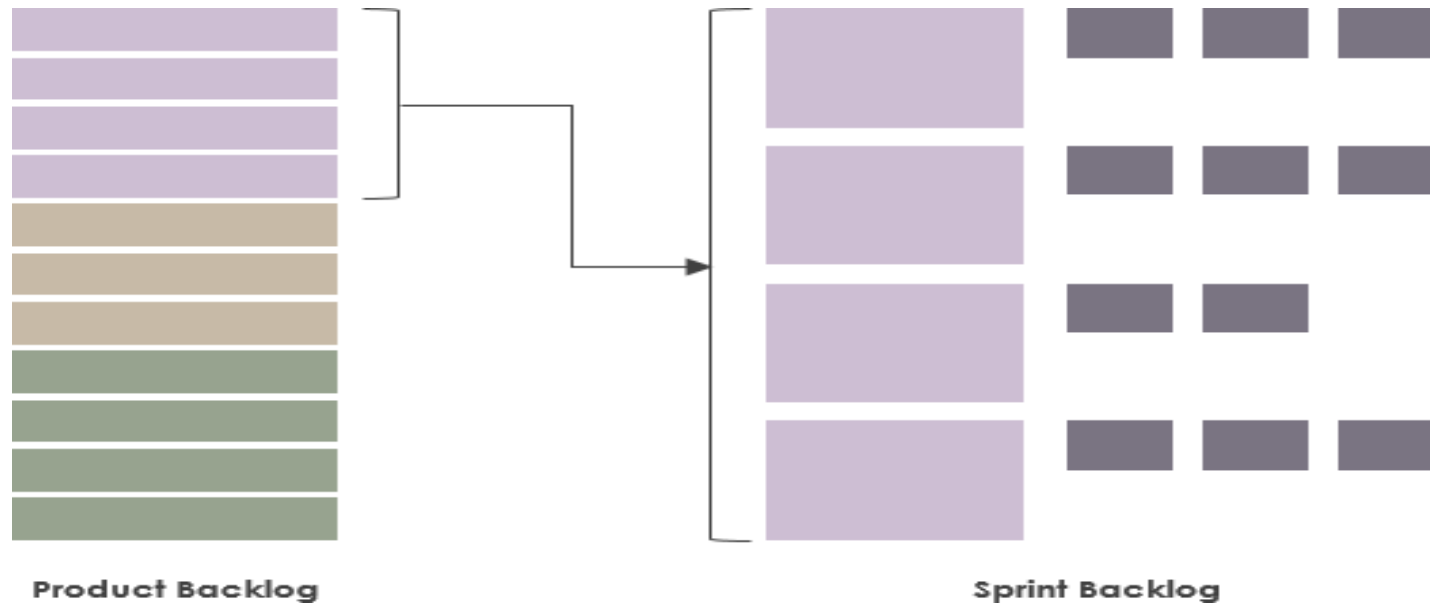
Characteristics

- Each product should have one product backlog which can have a set of large to very large features.
- Multiple teams can work on a single product backlog.
- Ranking of features is done based on business value, technical value, risk management or strategic fitness.
- Highest ranking items are decomposed into smaller stories during release planning so that they can be completed in future iterations.



Sprint Backlogs

Sprint Backlog is a set of Product Backlog items selected for the current Sprint, plus plans for delivering product increments for achieving **Sprint goals**.





- The Sprint Backlog is a sufficiently specific plan to make progress changes understandable in daily meetings.
- The Sprint Backlog will be changed for the following reasons:
- Over time, the development team has a better understanding of the requirements and may find that new tasks need to be added to the Sprint Backlog.
- Bugs or features are added as new tasks, which are all unfinished tasks committed previously of the Sprint.

Product Owner may work with Scrum Team to help Team better understand Sprint's goals. Scrum Master and Team may feel that minor adjustments will not affect Sprint's progress, but will bring more business value to customers



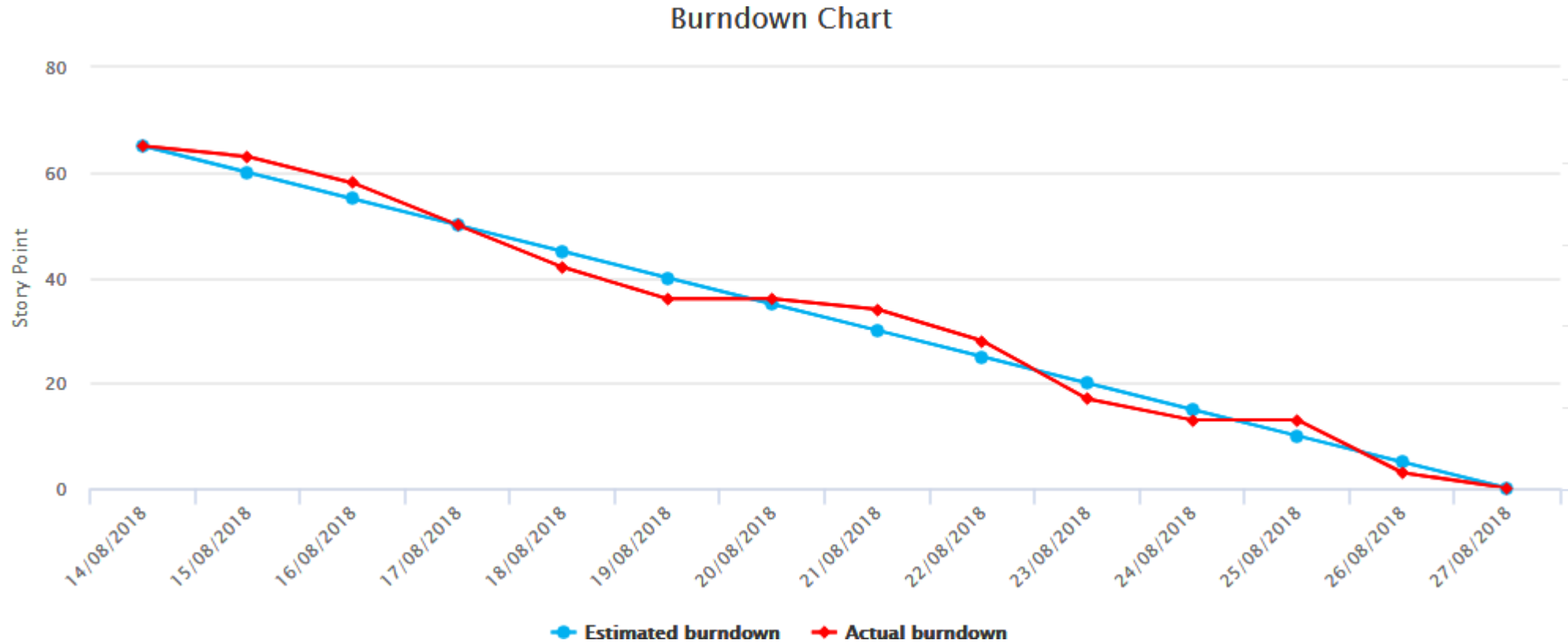
Monitor Progress



- At any point in Sprint, the sum of all remaining work on the Sprint Backlog can be calculated.
- The development team tracks all remaining work at least at daily meetings and predicts the likelihood of achieving the Sprint goals.
- By keeping track of the rest of the work in Sprint, the development team can manage its progress.
- Scrum does not consider the time spent on the Sprint Backlog. We only care about the remaining work and time variables.



Burndown Chart





Release Burndown Chart

- In the Scrum project, the team tracks the progress of the entire release plan by updating the release burn-out chart at the end of each Sprint.
- The release of burn down charts recorded the trend of the total remaining estimated workload of the Sprint backlog over a period of time.



References

- Lisa Crispin, Janet Gregory, “Agile Testing; A Practical Guide for Testers and Agile Teams”, Addison Wesley, 3rd Edition, 2015.

