

10th
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**User Conference on
Advanced Automated Testing**

Growing Your Automation Coverage as a Happy Healthy Tree

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Documentation is hard

Documentation is

- Necessary
- Not fun
- Hard to work with

That is why documentation tends to be

- An afterthought
- Rarely up-to-date
- Hardly used

Test case management is hard

Test case management is

- Necessary
- Not fun
- Hard to work with

That is why test case management tends to be

- An afterthought
- Rarely up-to-date
- Hardly used

Common (non-)solutions

Some ways to document test cases

- 1) At User Story level in Jira
- 2) In the test automation code base
- 3) Test case management tooling

However

- 1) Unconnected, hard to find
- 2) Hard to navigate, non-devs can't contribute
- 3) Typically, a blank canvas

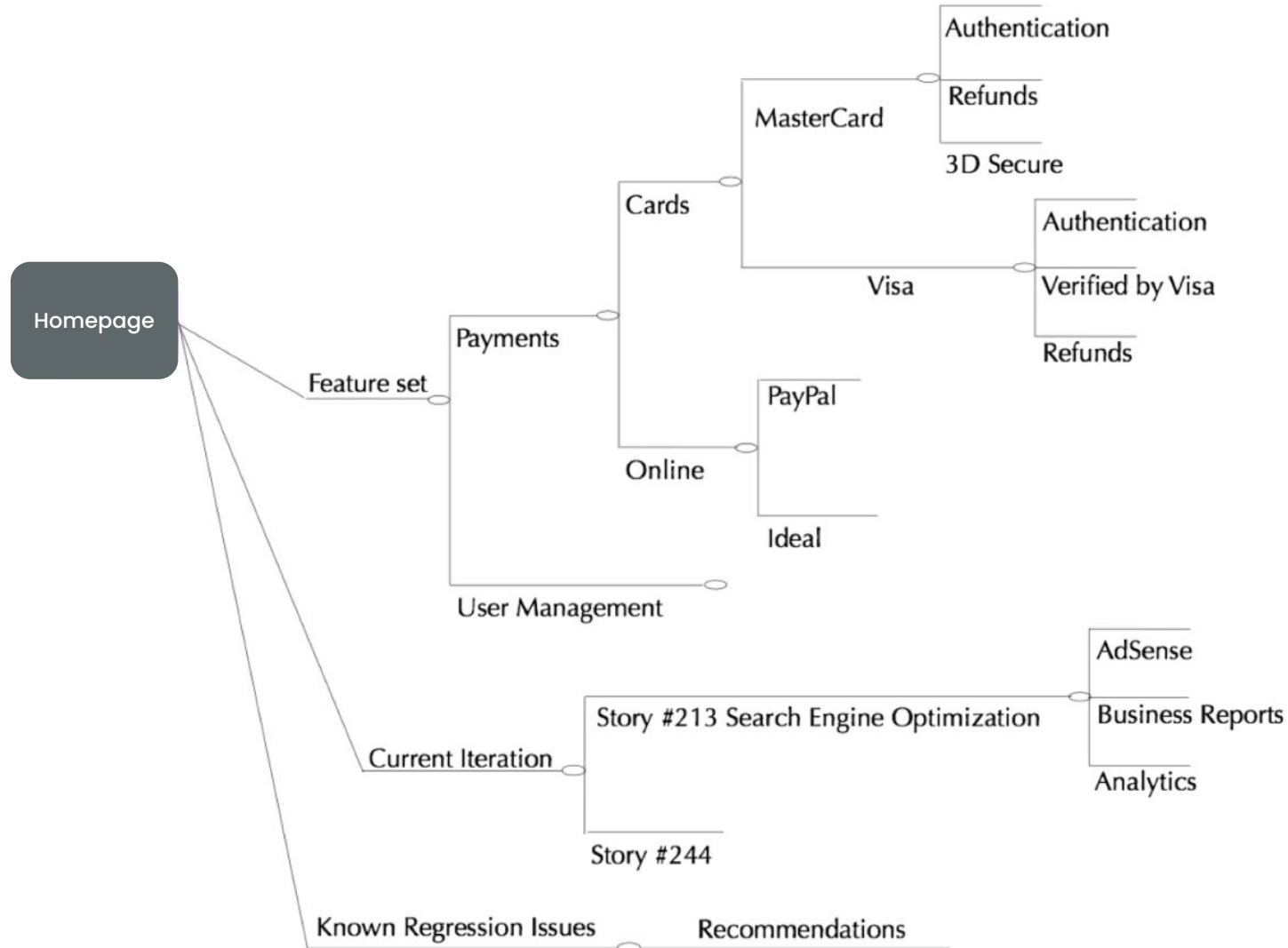
Feature Trees were introduced in 1990 as part of the FODA (feature-oriented domain analysis) method for software product lines.

Research Paper: [On the Structure of Problem Variability - From Feature Diagrams to Problem Frames](#). By Andreas Classen, Patrick Heymans, Robin Laney, Bashar Nuseibeh, and Thein Than Tun. The Open University. 2007

The form fits most (if not all) automation documentation:

- 1) Confluence
- 2) Automation codebases
- 3) Test case management tooling

Example feature tree



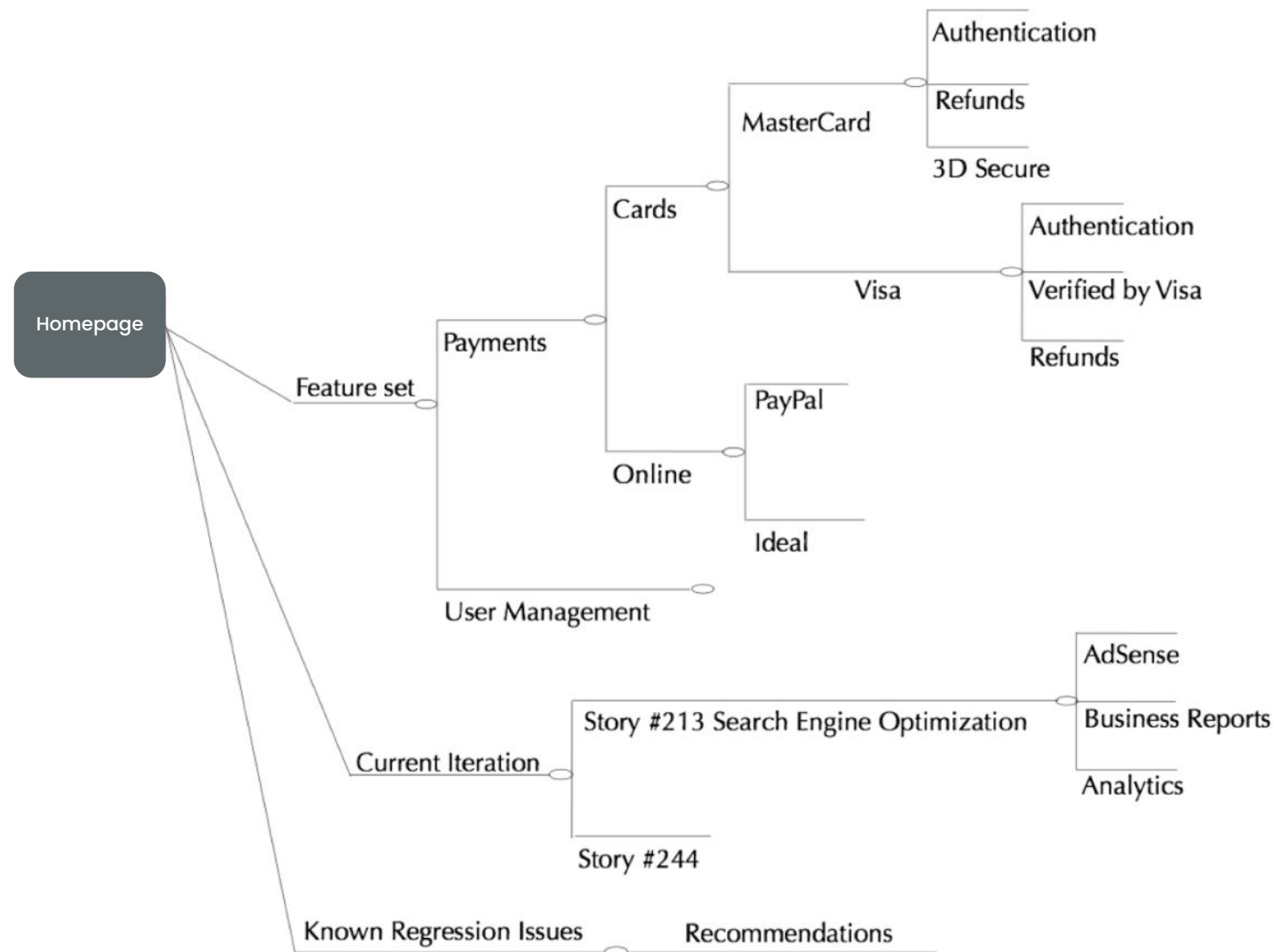
How to grow a happy tree

Start small

Find the limit of your branch

Grow new branches on the side

Consolidate dying branches



Empower your tree

- 1) Add risk-based testing to the tree
 - 1) Identify risk-heavy/high-priority branches
 - 2) Mark those branches as such
 - 3) Ensure good coverage in those branches
- 2) Grow your tree outside with the help of Business
 - 1) Set up or evaluate your tree with Business
 - 2) Create placeholder branches
 - 3) Fill branches as technical debt

Using a feature tree

- 1) Gives shape to your test case management
- 2) Makes test cases easy to find
- 3) Helps identify gaps from a risk- or business-perspective
- 4) Can be implemented in many places
- 5) Makes test case management easy and fun!

Any further questions?

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