

Role Migration and Advancement Processes in OSSD Projects: A Comparative Case Study

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目次

- 背景
- 目的
- OSSDプロジェクトの組織階層
- 分析方法
- 階層ごとの参加者と役割
- 役割と任命
- まとめ

背景

- 近年多くの開発者は, OSSD(open source software development)プロジェクトの拡大, サポートなどに貢献している.
- プロジェクトへの参加は, プロジェクトへの技術的貢献と同じくらいハードルが高い.
- 時間経過によるプロジェクトの, 参加者の変化の研究は不十分である.

目的

- OSSDの社会的,技術的プロセスの比較
- 各プロセスのモデリングの考察



プロジェクトへの参加者の増加
開発プロセスの改善

分析方法

- 3つの大規模OSSプロジェクトを調査対象とする
- 役割ごとの参加者や,やりとりの流れをモデル化して比較する

OSSDプロジェクトの組織階層

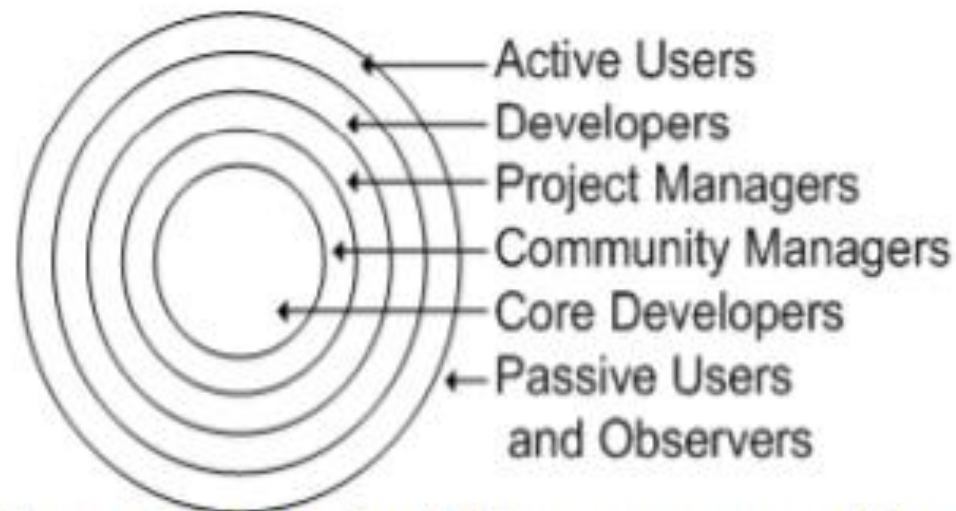


Figure 1. An “onion” diagram representing a generic OSSD project organizational hierarchy

OSSDプロジェクトの組織階層

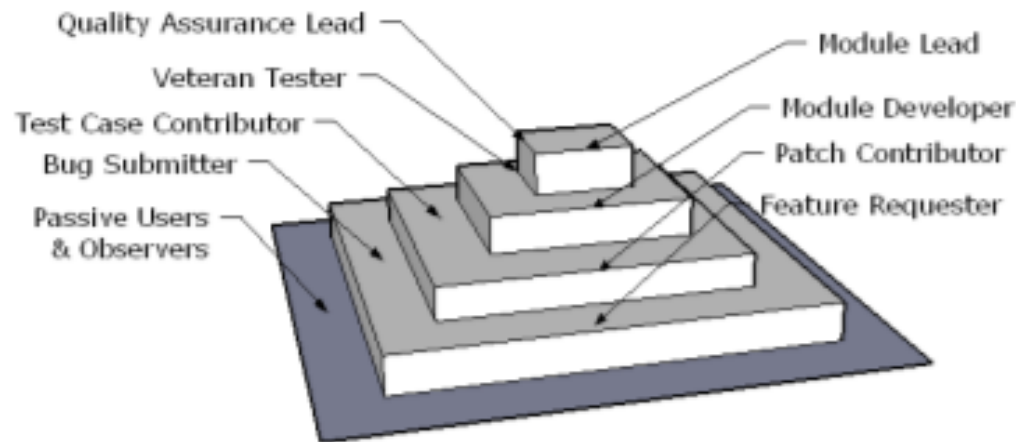


Figure 2. An “onion” pyramid representation of a generic OSSD project organizational hierarchy with multiple role-sets and advancement tracks.

階層ごとの参加者と役割

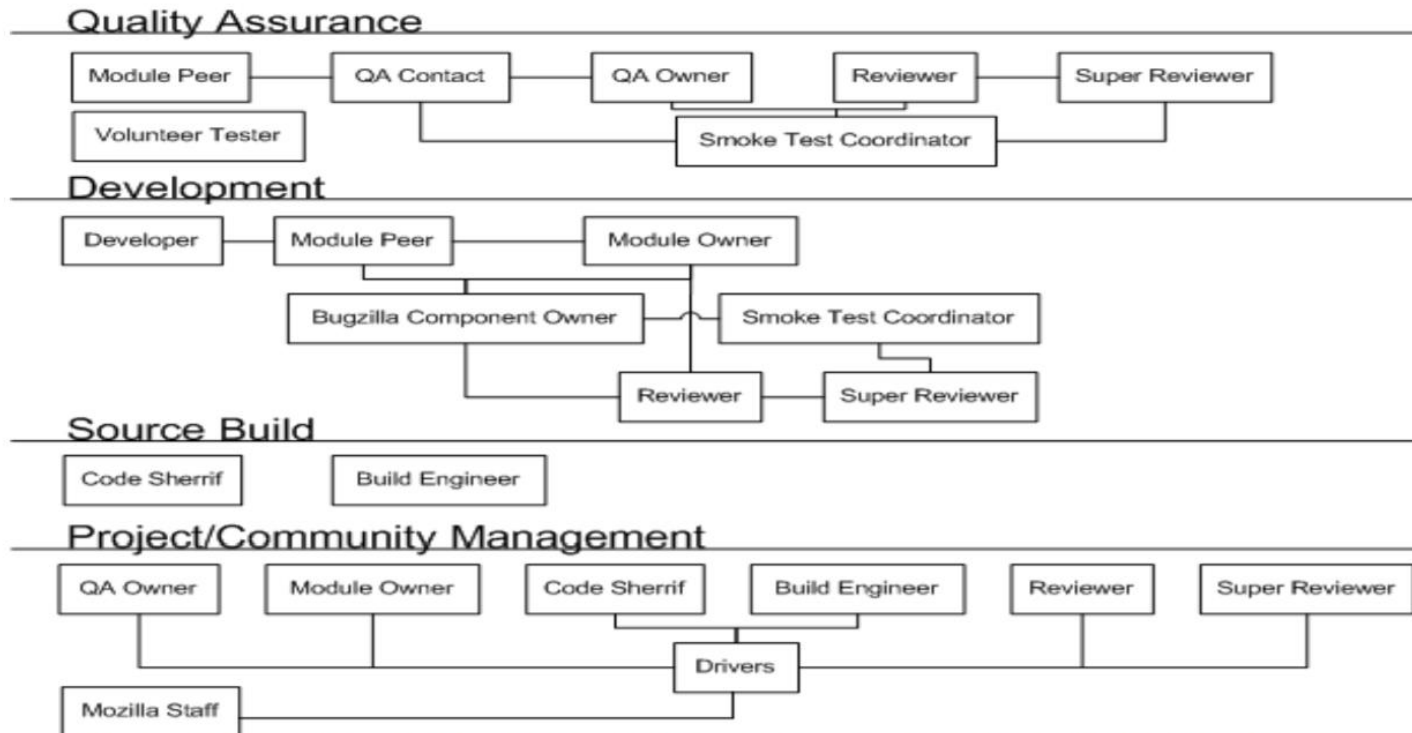


Figure 3. Role-sets, role hierarchies, and advancement paths (left-to-right) in Mozilla.org

階層ごとの参加者と役割

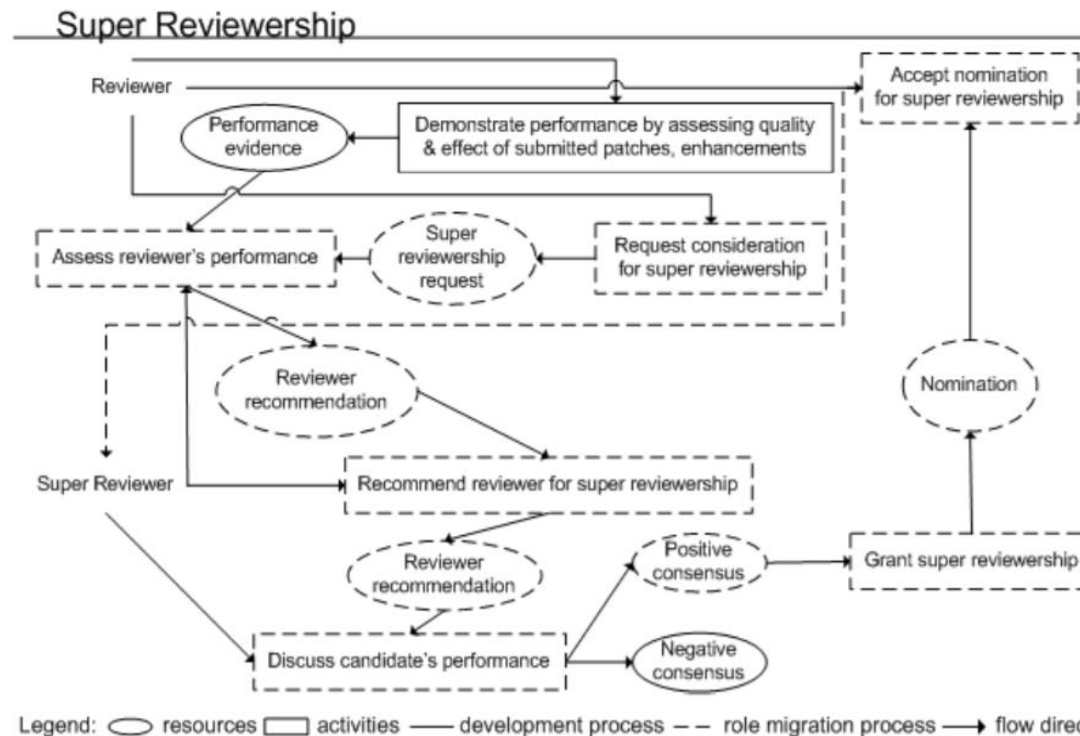


Figure 4. Deprecated role migration process for reviewers in Mozilla.org. Lateral and reverse migration have been omitted for simplicity.

階層ごとの参加者と役割

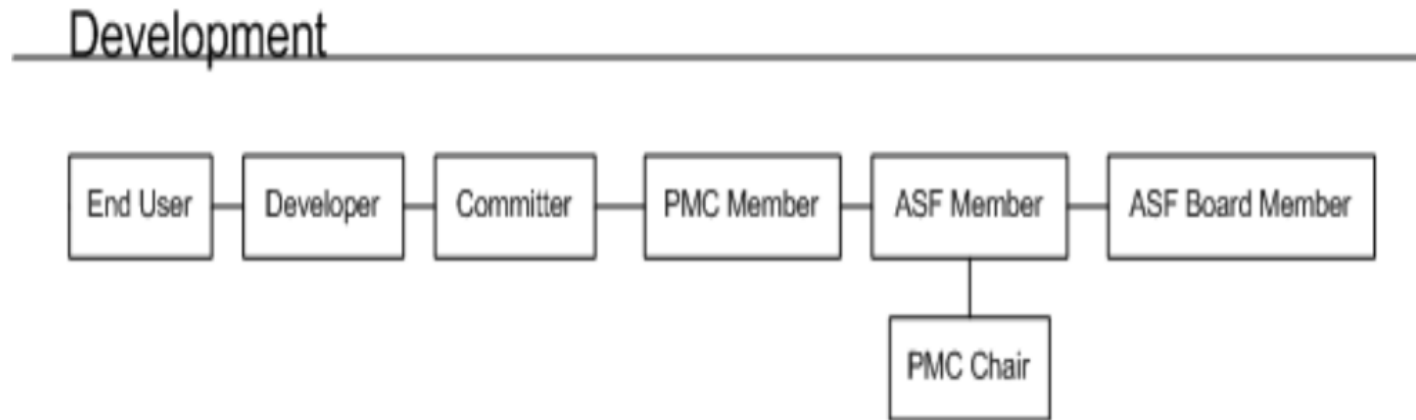


Figure 5. Role-set, role hierarchy, and advancement paths in Apache.org

階層ごとの参加者と役割

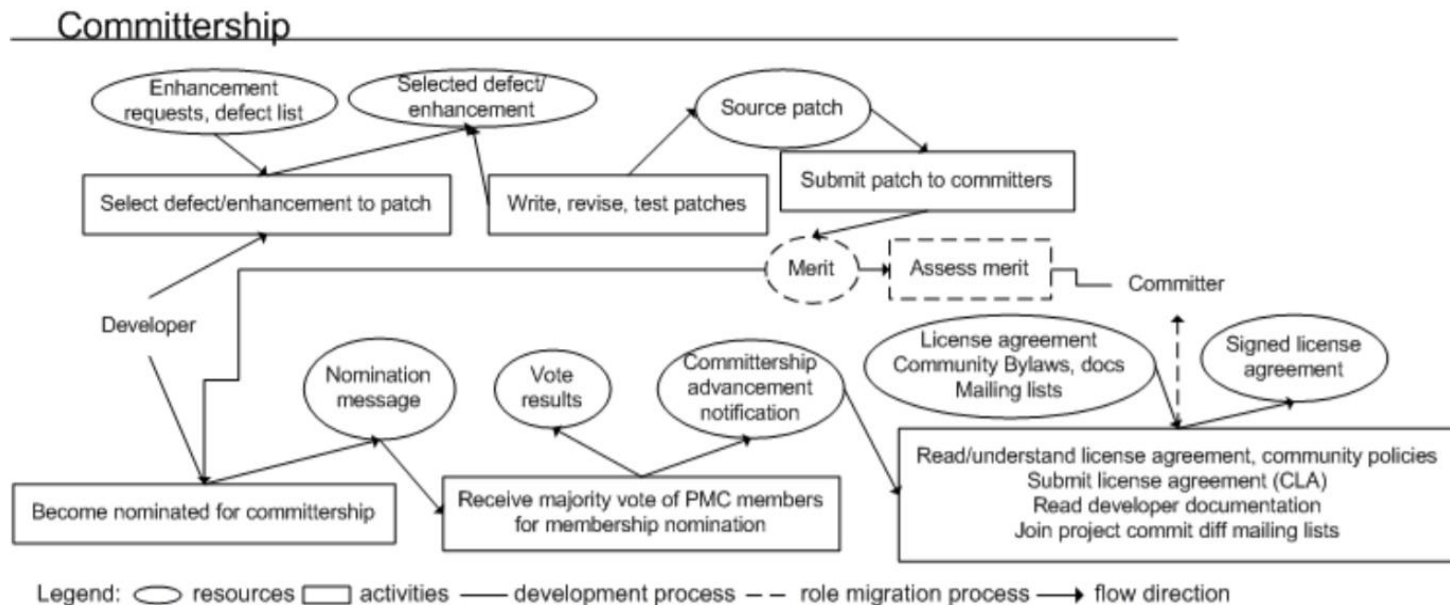


Figure 6. Role migration process for committership in the Apache.org community, highlighting the sequence of a developer becoming a committer. Lateral and reverse migration have been omitted for simplicity.

階層ごとの参加者と役割

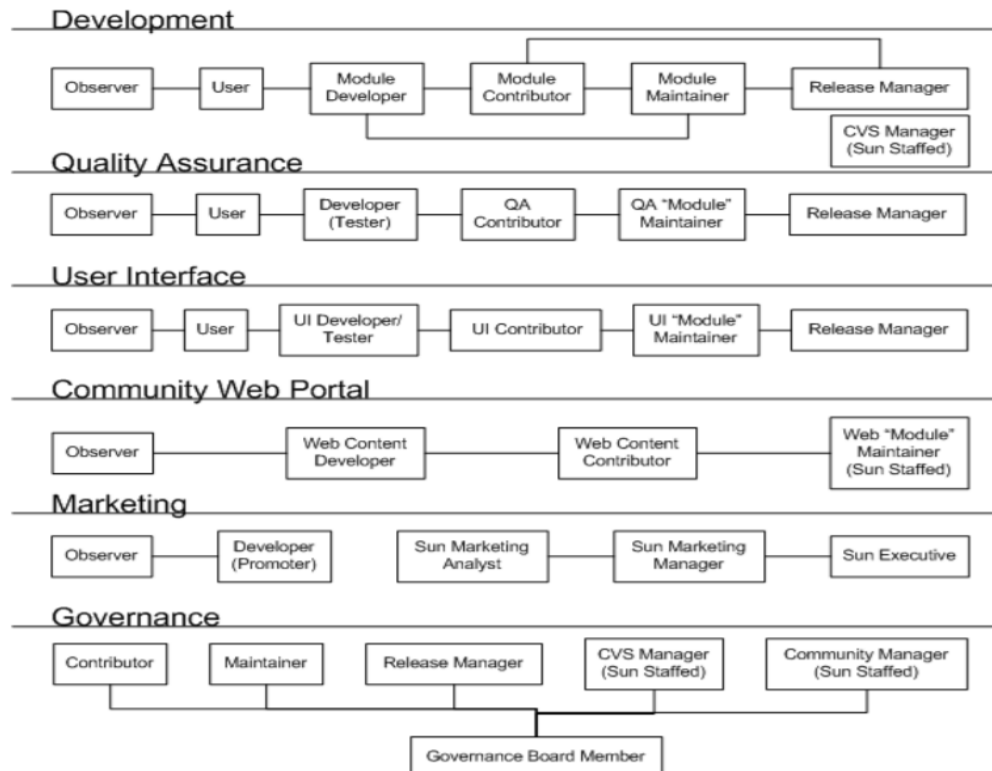


Figure 7. Role-sets, role hierarchies, and advancement paths in NetBeans.org

階層ごとの参加者と役割

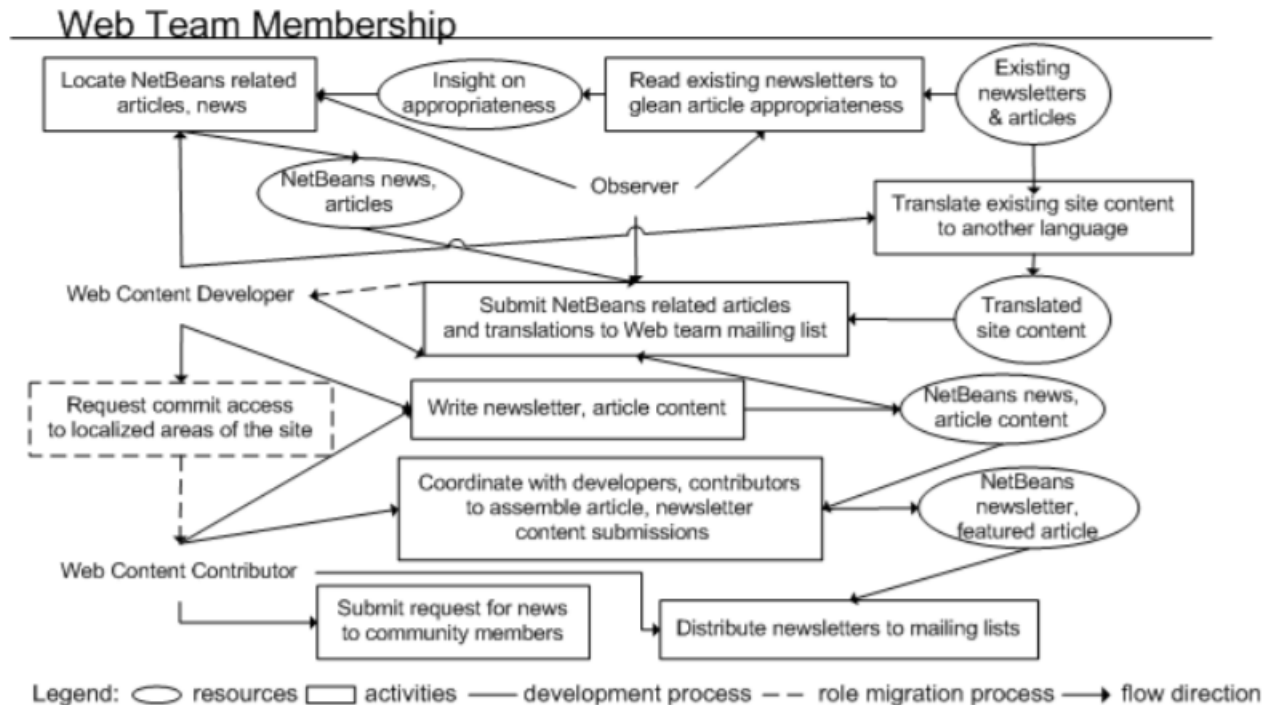


Figure 8. Role migration process for Web team membership in NetBeans.org. Lateral and reverse migration have been omitted for simplicity.

役職と任命

Table 1. Types of role migration processes observed in OSSD projects

<i>Role Acquisition Method</i>	<i>Description</i>
Volunteering	Implicitly/explicitly volunteering for and performing a task. Example: Mozilla volunteer tester
Earned/Granted	An individual or body of authority grants rank to the community member. This may require that the community member apply for the position, or that s/he is nominated or sponsored by a higher ranking member, possibly involving a vote from the granting body. Example: Apache committer
Appointed/Assigned	An individual or body of authority appoints the community member to a position. Example: NetBeans community manager
Elected	An individual is voted into a position by the community at large or a subcommittee. Example: ASF board member

まとめ

- 社会的プロセスは,プロジェクトのパフォーマンスに影響しない
- 役割と階層ごとに参加者を分類することで,プロジェクトの主要人物が特定できる
- 社会技術的プロセスの比較は,参加者の役割や実績の調査に役立つ