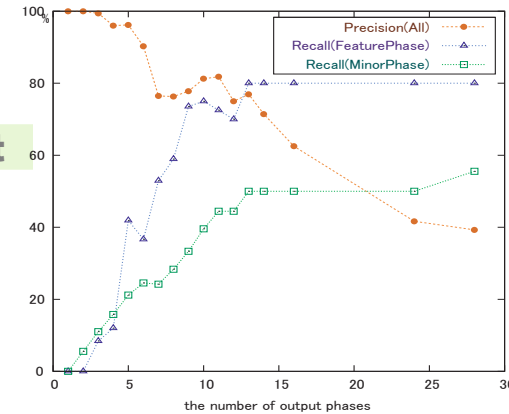
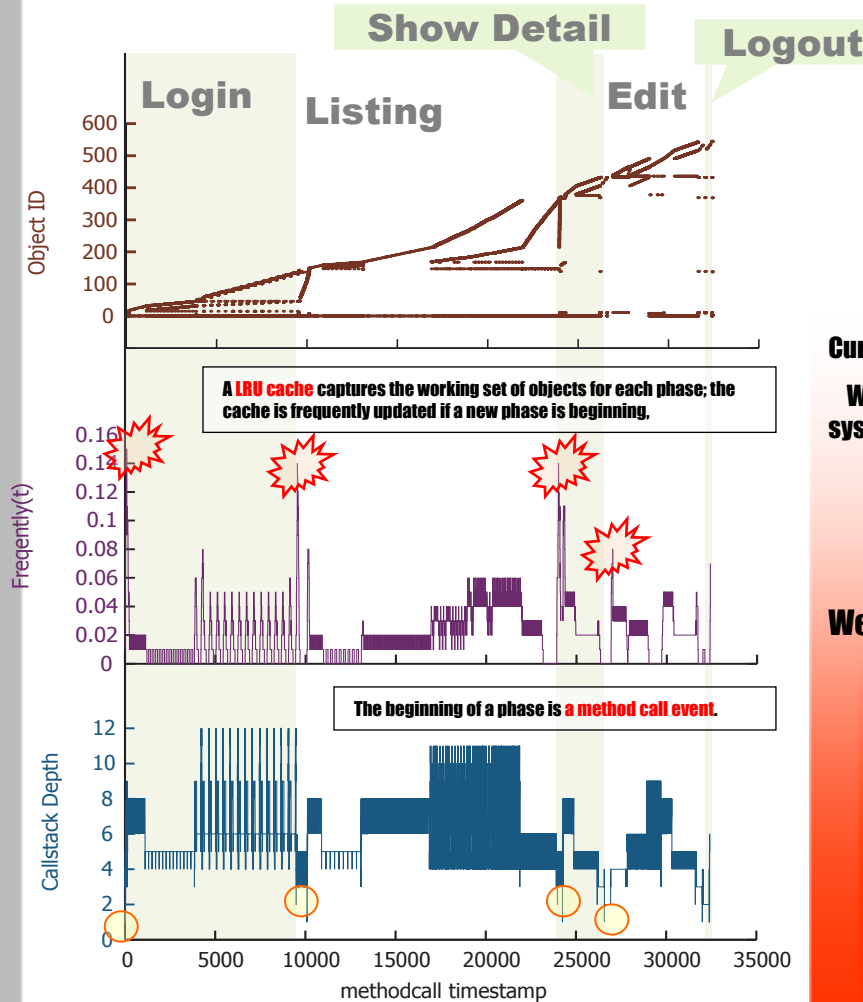


Automatic Phase Detection

from Execution Traces for Software Testing

| Feature | phases | Feature |
|-------------------------------|--------|-----------------------|
| Login | | Login |
| Listing tools | | Listing tools |
| Maintenance of a tool | | Maintenance of a tool |
| Updating the tool information | | Logout |
| Cancel the edit | | |
| Logout | | |

Dividing an Execution Trace to Phases



All test scenarios include common features such as LOGIN and LOGOUT.

We propose a phase detection approach to dividing an execution trace to feature-level phases.

Our approach enables testers and maintainers to focus on only interesting features in execution traces!

Current Status:

We have detected phases in industrial systems.

- Four scenarios for a system.
- Five different implementation of the same specification.

We are trying to ...

- Compare and Classify Phases
- Map Phases to Features
- Detect Crosscutting Concerns in various Features