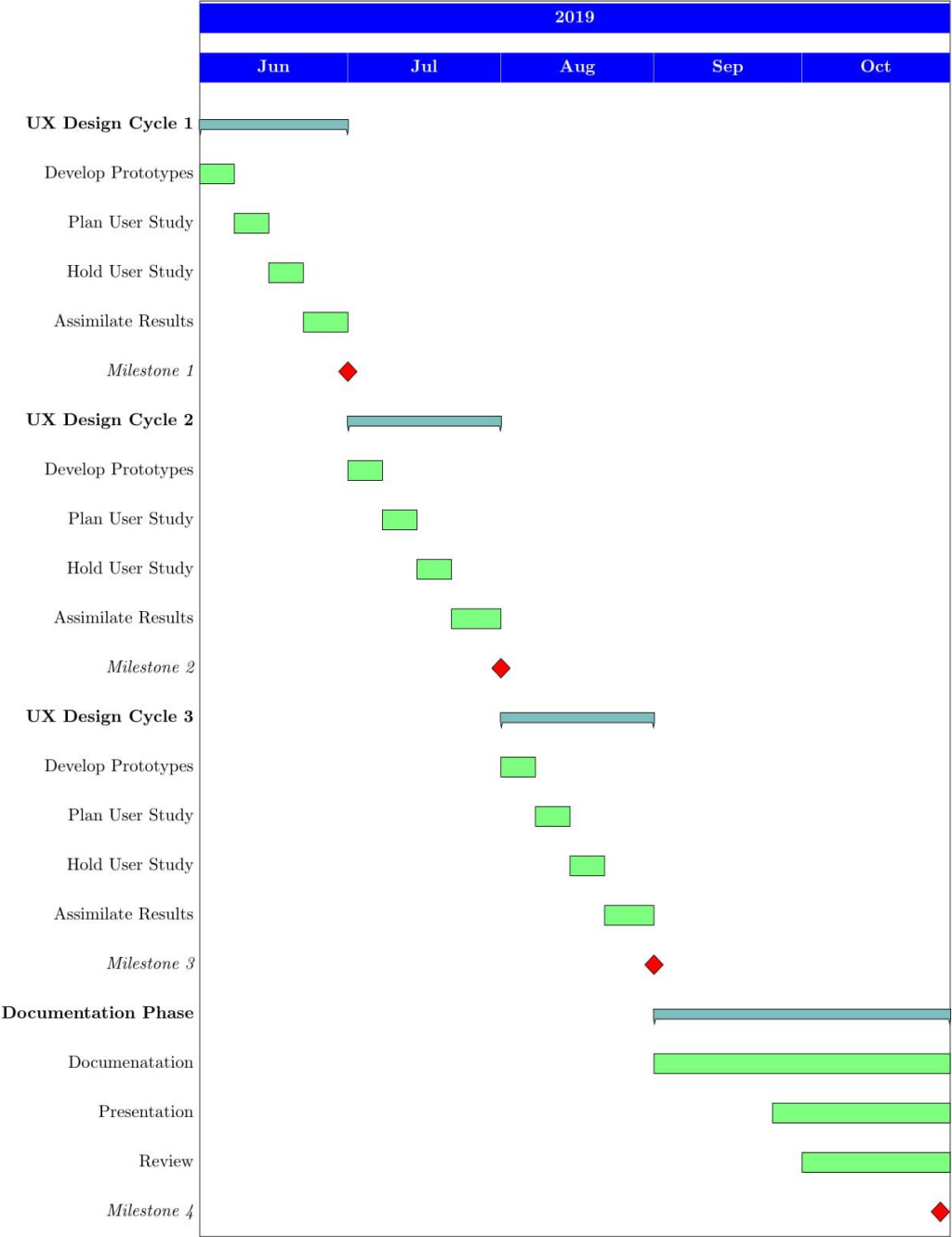


Integration of Multiple Static Analysis Tools in a Single Interface

Status Quo – 15.07.2019

- G. S. Varma

Time Plan



done
in progress...

UX 2















Improvisations over UX 1:

- Code base improved
- Volume of bugs increased (+ scroll)
- Code view ideas addressed in addition to new ideas

UX 2

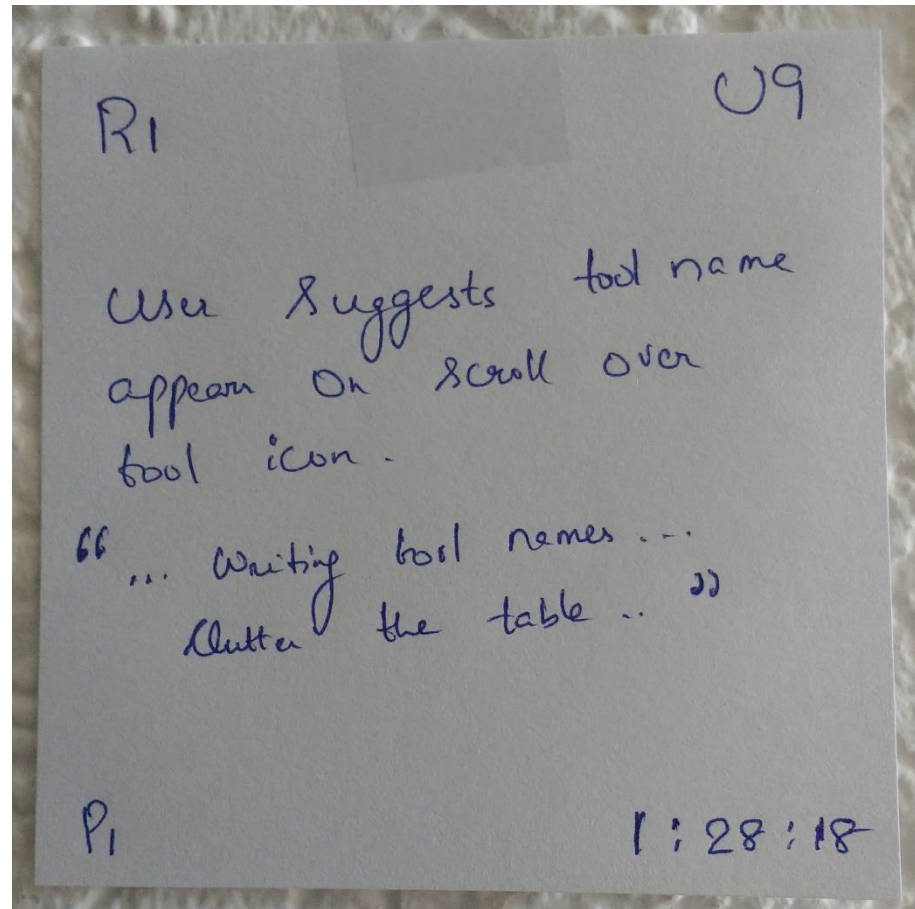
	Analysis View	Code View
RQ 1 (display)	<ul style="list-style-type: none">• Single List• Separate List• Tags	<ul style="list-style-type: none">• Separate Icons• Single Icon
RQ 2 (feedback)	<ul style="list-style-type: none">• Animated Icons• Progress Bar• Popup	<ul style="list-style-type: none">• Toasts (alerts)• Spinner (status)
RQ 3 (trace)	<ul style="list-style-type: none">• Numbers• Adjectives	<ul style="list-style-type: none">• Before/After

User Study (UX 2 Raw Data)

 user - 6	28/06/2019 10:29	AVI Video File (VLC)	536,049 KB
 user - 6	28/06/2019 10:57	TechSmith Project	6 KB
 user - 7	29/06/2019 19:28	AVI Video File (VLC)	665,578 KB
 user - 7	29/06/2019 19:37	TechSmith Project	6 KB
 user - 8	30/06/2019 22:39	AVI Video File (VLC)	274,775 KB
 user - 8	30/06/2019 22:43	TechSmith Project	7 KB
 user - 9	06/07/2019 16:41	AVI Video File (VLC)	896,555 KB
 user - 9	06/07/2019 17:20	TechSmith Project	6 KB
 user - 10	06/07/2019 20:37	AVI Video File (VLC)	849,613 KB
 user - 10	06/07/2019 23:14	TechSmith Project	6 KB
 user - 11	06/07/2019 23:13	AVI Video File (VLC)	1,025,744 KB
 user - 11	06/07/2019 23:14	TechSmith Project	6 KB
 user - 12	07/07/2019 13:06	AVI Video File (VLC)	650,411 KB
 user - 12	07/07/2019 13:11	TechSmith Project	6 KB

User Study (Affinity Note)

- Factual statements
- Observations
- Quotations



User Study (Affinity Wall)

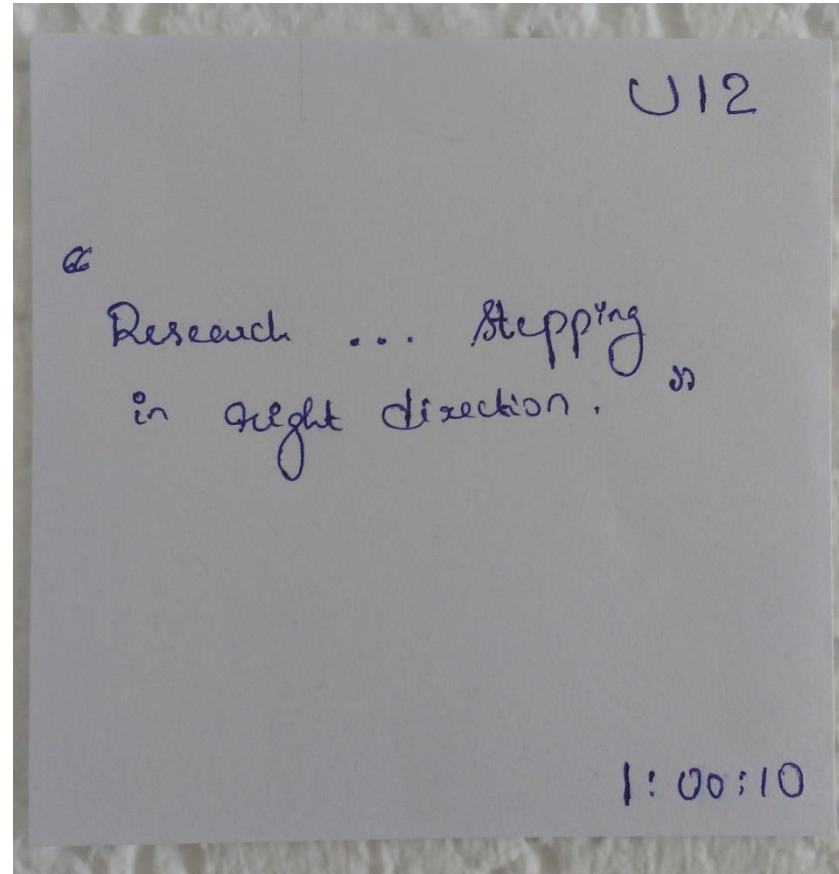


User Study (Results)

- Quantitative data – excel [added in git repo]
- Qualitative data – affinity

- No idea is blacklisted
- Most users preferred to see combinations in end product

User Study (Results – positive remark)



Limitations of user study

- Mock up screens jump on out of scope clicks.
 - this might distract user working memory
- RQ 2 - No animation effects by mock up tool.
 - but tried to help user understand the scenario

UX 3 - Vision

- Explore new ideas

(Or / both)

- Converge to a usable prototype

to be decided

UX 3 - explore

	Analysis View	Code View
RQ 1 (display)	<ul style="list-style-type: none">• Tabs for tools• Graphs• Categories for bug	<ul style="list-style-type: none">• Bugs button to a file (shows tool wise / bug type wise)
RQ 2 (feedback)	<ul style="list-style-type: none">• Timed reports (ex: on login)	
RQ 3 (trace)	<ul style="list-style-type: none">• Icon for previous attempted fixes	

UX 3 - converge

- Improvise the existing ideas to a single (or more) prototype
- Perform SUS / Attarkdiff usability study
- Conclusion: one usable prototype

Coming up (July)

- 22.07 meeting – prototypes / protocol approval
- 30.07 meeting – accomplish UX 3 interviews