

		Objectives		
		Incorporating Internal Resources (O1)	Incorporating External Resources (O2)	Improving Robustness (O3)
2 months	Study	<ul style="list-style-type: none"> <li>• Vision-based GUI testing</li> <li>• Widget detection</li> <li>• Image classification</li> <li>• Image captioning</li> </ul>	<ul style="list-style-type: none"> <li>• LLM-based GUI testing</li> <li>• Prompt engineering</li> <li>• Choosing suitable model and prompt pattern</li> </ul>	<ul style="list-style-type: none"> <li>• RL-based GUI testing</li> <li>• Choosing suitable RL techniques</li> <li>• Defining RL states, reward, etc.</li> </ul>
4 months	Exp.	<ul style="list-style-type: none"> <li>• Build widget labeler</li> <li>• Integrate Horus into the evaluator framework</li> <li>• Reuse testcase of mobile apps</li> </ul>	<ul style="list-style-type: none"> <li>• Build LLM translator</li> <li>• Integrate Hermes into the evaluator framework</li> <li>• Reuse testcase of mobile apps</li> </ul>	<ul style="list-style-type: none"> <li>• Build RL Agent</li> <li>• Integrate Athena into the evaluator framework</li> <li>• Reuse testcase of mobile apps</li> </ul>
2 months	Report	<ul style="list-style-type: none"> <li>• Workshop paper</li> <li>• Conference paper</li> </ul>	<ul style="list-style-type: none"> <li>• Workshop paper</li> <li>• Conference paper</li> </ul>	<ul style="list-style-type: none"> <li>• Tool/Demo paper</li> <li>• Journal paper</li> </ul>
		<b>Milestone 1:</b> The Horus test reuse tool validated on mobile app subjects	<b>Milestone 2:</b> The Hermes test reuse tool validated on mobile app subjects	<b>Milestone 3:</b> The Athena test reuse tool validated on mobile app subjects