

Project name: PyRazer		Project number: 15984			Project Manager's name: Alexander Shelton	
Type of risk	Describe the impact or characteristics	Examined	Estimated Likelyhood %	Risk Description	Mitigation strategy	Resource
Technical Risk	Compatibility issues with OpenRazer library	<input type="checkbox"/>	50%	OpenRazer may not function correctly on all devices.	Test early on diverse devices; have fallback tools ready.	Senoir Software Developer
Technical Risk	Bugs in input capture module	<input type="checkbox"/>	70%	Errors in keyboard/mouse input could block progress.	Implement rigorous unit testing; allocate debugging time.	Senoir Software Developer
Technical Risk	Performance issues during macro execution	<input type="checkbox"/>	40%	Slow response times during execution of recorded macros.	Optimize code; test under real-world usage scenarios.	Senoir Software Developer
Schedule Risk	Delays due to unforeseen bugs	<input type="checkbox"/>	60%	Debugging takes longer than expected.	Allocate buffer time; prioritize critical features.	Project Manager
Resource Risk	Limited familiarity with Python libraries used in the application	<input type="checkbox"/>	50%	Learning curve delays implementation of CLI commands.	Provide training; consult documentation and community.	Project Manager
Schedule Risk	Dependencies causing bottlenecks	<input type="checkbox"/>	50%	Tasks cannot proceed without completion of prerequisites.	Identify critical path and dependencies; monitor regularly.	Project Manager
Resource Risk	Limited access to testing devices	<input type="checkbox"/>	40%	Insufficient devices for compatibility testing.	Acquire additional devices; simulate diverse environments.	Tester
Security Risk	Macros executing unintended actions	<input type="checkbox"/>	30%	Poorly sandboxed macros may harm system integrity.	Implement strict validation for macros; sandbox execution.	Senoir Software Developer
Scope Risk	Scope creep	<input type="checkbox"/>	50%	Adding non-essential features causes delays.	Define clear project boundaries; enforce change control processes.	Project Manager
Technical Risk	Depedency libraries being updated and causing compatibility issues.	<input type="checkbox"/>	30%	Updates may introduce breaking changes.	Monitor library updates; test new versions in isolated environments.	Senoir Software Developer
External Risk	Dependency on third-party libraries becoming deprecated	<input type="checkbox"/>	20%	Discontinued support affects functionality.	Use well-maintained libraries; identify alternatives early.	Senoir Software Developer
Resource Risk	Insufficient team members to meet deadlines	<input type="checkbox"/>	50%	Delayed tasks due to workload imbalance.	Reassess workload; extend deadlines if critical tasks are delayed.	Project Manager
Schedule Risk	Overlapping tasks causing team conflicts	<input type="checkbox"/>	40%	Resource contention leads to inefficiency.	Develop a clear task schedule; stagger overlapping tasks.	Project Manager
Quality Risk	Incomplete or unclear documentation	<input type="checkbox"/>	50%	Poor documentation hinders user and developer experience.	Review iteratively; assign dedicated resources for writing and editing.	Documentation Specialist
Technical Risk	Inconsistent behavior across Linux distributions	<input type="checkbox"/>	50%	Functions differently on varying Linux distros.	Test functionality on popular distributions like Ubuntu, Fedora, Arch.	Linux Specialist
External Risk	Team member unavailability due to unforeseen circumstances	<input type="checkbox"/>	30%	Absences delay tasks or block progress.	Cross-train team members; maintain clear documentation for handover.	Project Manager
Security Risk	Unsecured configuration files exposing sensitive data	<input type="checkbox"/>	20%	Unauthorized access to config files risks breaches.	Encrypt sensitive data; restrict access to configuration files.	Senoir Software Developer
Technical Risk	CLI command errors causing crashes	<input type="checkbox"/>	50%	Invalid commands lead to program instability.	Validate input; implement robust error handling.	Senoir Software Developer
User Experience Risk	CLI commands being unintuitive	<input type="checkbox"/>	40%	Poor usability frustrates users.	Test commands with users; provide a detailed help menu.	Tester