

REF ID	RISK CATEGORY	RISK DESCRIPTION	PROBABILITY 1 – 5	IMPACT 1 – 5	RISK SEVERITY SCORE Prob x Impact	LIKELY TIMING OF RISK	MITIGATION STRATEGY	HOW TO AVOID IT?	RISK TRIGGER	RESPONSE PLAN	OWNER
1	General	Project requirements not delivered	2	5	10	End of the project	Avoidance		Code not working Hardware not working	Anticipate work and do everything in time	Whole team
2	Client communication	Requirements not clearly defined with the client	3	4	12	Between the beginning of the project until the delivery of the final	Reduction	Organise a meeting with the client for questions before the beginning of the project.	Lack of exchange between the client and the team at the beginning of the project	At least send an email or if possible organise a meeting with the client to agree on the requirements.	Project and Program Manager
3	Client communication	Email long response time	2	3	6	Risk present throughout whole project	Acceptance		An email is sent either by the client or by us and the other party takes a lot of time to answer.	Send a 2nd email and if there is still no response, make the decision with the team members and the school.	Project and Program Manager
4	Client communication	Misunderstandings with the client	2	4	8	After a mail or a meeting with the client	Reduction	Make a report on all the points discussed with the client.	Meeting the client	Write down everything the client says and reconfirm with the client every important point said during the meeting	Project Manager Program Manager
5	Functional	Unclear functional specifications	2	4	8	Risk present through the functional specifications writing part	Reduction	Make multiple versions and make team members and the client validate the document.	If the functional specifications doesn't contain enough details and the scope of the project isn't clearly defined then the technical specifications might not be on point.	Having document reviewers that will approve the document when everything will be on point, to make sure that we aren't forgetting any important information.	Program Manager Quality Assurance
6	Technical	Unclear technical specifications	1	3	3	During the writing of the technical specifications	Acceptance	Make multiple versions and make team members and the client validate the document.	Lack of explanations	Review the document	Technical Leader
7	Technical	Parsing errors due to unsupported or complex Verilog code	2	4	8	During parsing or integration phase	Reduction	Define and test supported Verilog syntax early; validate with examples	User uploads a complex or unconventional Verilog file	Fallback to manual parsing or show error message with details	Technical Leader Software Engineer
8	Technical	Incomplete simulation due to mismatched or missing SDF timing data	2	3	6	During backend processing	Reduction	Ensure SDF and Verilog come from the same synthesis; validate matching	No timing data appears on frontend after upload	Use logical simulation only; notify user that SDF was not used	Technical Leader Software Engineer
9	Technical	Simulation data causes frontend errors or visual issues	2	4	8	Frontend rendering phase	Reduction	Use JSON schema validation before frontend use	Frontend crashes or displays unexpected behavior	Show user-friendly error; log issue for debugging	Technical Leader Software Engineer
10	Technical	The interface becomes slow or unresponsive for large designs	4	4	16	During frontend rendering of larger files	Reduction	Optimize rendering logic and SVG drawing with D3.js	Long loading times or laggy interaction	Fallback to limited view or simplify drawing	Technical Leader Software Engineer
11	Technical	Important FPGA components (like memory blocks or MUXes) are not supported	3	2	6	During backend parsing	Acceptance	Document supported components clearly	Unexpected or blank blocks in frontend	Label as 'Generic' BEL; inform users in docs	Technical Leader Software Engineer
12	Technical	Users are confused by missing routing paths or incomplete visualizations	1	3	3	During demo or user testing	Acceptance	Clarify limitations and provide guidance in UI	User asks why wires are not shown or modules missing	Add onboarding/help modal to explain current scope	Technical Leader Software Engineer
13	Technical	Client encounters difficulty running the app locally	2	4	8	Deployment or demo phase	Reduction	Write detailed setup docs; simplify dependencies	User fails to install or launch system	Provide step-by-step README and example config	Technical Leader Software Engineer