Solution Guide: Threat Modeling Step 6: Mitigating Risk

In this activity, you devised a risk mitigation plan based on analysis obtained in the previous activity.

- 1. Refer to the risk analysis you performed previously, and identify all of the risks you should monitor, manage, or mitigate.
 - XSS injection used to hook web app users' browsers.
 - SQL injection used to dump database.
 - Employee downloads backdoor into corporate intranet.
 - Engineer steals trading algorithms from technology database.
- 2. Suggest a security control for each risk.

XSS injection used to hook web app users' browsers.

- Recommendation: Use a framework to handle user input.
- Type: Technical.
- Intent: Preventive.
- Time to Implementation: One quarter.
- Cost of Implementation: Low (<\$10k). Engineers must simply refactor existing code.

SQL injection used to dump database. - **Recommendation**: Use a framework to handle user input. - **Type**: Technical. - **Intent**: Preventive. - **Time to Implementation**: One quarter.

- **Cost of Implementation**: Low (<\$10k). Engineers must simply refactor existing code.

Employee downloads backdoor into corporate intranet.

- Recommendation: Install antivirus over whole Enterprise domain.
- Type: Technical,
- Intent: Preventive.
- Time to Implementation: Very fast.
- Cost of Implementation: Very low (<\$10). Cost is mostly due to licensing the software.

Engineer steals trading algorithms from technology database. - **Recommendation**: Restrict access to databases containing confidential information. - **Type**: Technical. - **Intent**: Preventive. - **Time to Implementation**: Very fast. - **Cost of Implementation**: Very low (<\$10). Cost is mostly due to licensing the software.

- 3. Finally, rank these issues from least to most important, taking into consideration how much each solution costs.
 - 1. Employee downloads backdoor into corporate intranet.
 - 2. XSS injection used to hook web app users' browsers.
 - 3. Engineer steals trading algorithms from technology database.
 - 4. SQL injection used to dump database.

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