**Risk assessment and mitigation plans**

1. Potential risks for Pivove, their likelihood, impact, and possible mitigation strategies :

1. Lack of data

* Description - Lack of data in the beer database at platform launch
* Likelihood – very high
* Impact – medium
* Mitigation strategies
* Hire a team of beer specialists to pre-populate the database
* Create promotional campaigns to encourage users to add beers

1. Security breach
   * Description – User data security breach
   * Likelihood – medium
   * Impact – very high
   * Mitigation strategies
     + Implement encryption protocols
     + Perform regular security audits and testing
2. Slowness

* Description – Platform performance degradation under high load
* Likelihood – high
* Impact – high
* Mitigation strategies
  + Use horizontal scaling to handle increased load on application servers
  + Deploy load balancers
  + Optimize database queries

1. Content issues
   * Description – inappropriate reviews, spam
   * Likelihood – high
   * Impact – medium
   * Mitigation strategies
     + Implement content moderation features, including user reporting
     + Allow peer review and rating of user-generated content
2. Infrastructure failures
   * Description – page failure, data errors
   * Likelihood – low
   * Impact – high
   * Mitigation strategies
     + Implement failover mechanisms to switch to backup servers during outages
     + Monitor system health and set up alerts for potential failures

2. Risk matrix

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Likelihood/impact | Low | Medium | High | Very high |
| Low |  |  | Infrastructure failure |  |
| Medium | Slowness |  |  | Security breach |
| High |  | Content issues | Slowness |  |
| Very high |  | Lack of data |  |  |