# SOFTWARE PROJECT RISK AND MANAGEMENT SYSTEM

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# INTRODUCTION

- In the field of software development, software risk involves all stages of the software development process, and all software projects have risks.
- The research on risk management of software projects began in the late 1960s.
- Different classic risk management theoretical systems
- Different software risk events have different probabilities at different stages of software development.
- The harm degree of different risks at different development stages is also different.

# LITERATURE REVIEW

| Year | Author | Method | Conclusion |
|---|---|---|---|
| 2021 | Yang Hui | Research and Analysis of Risk Management and Control of Software Project | The software development technology is constantly improving, the failure rate of projects has remained basically unchanged at about 40%-50% in the past two decades |
| 2020 | Chu Hongjiang | Rashly development | software development in rashly develops without considering the risks, it ll cause the failure of the whole project |
| 2022 | Pang Hongqiu | Early Risk Management | Early risk management can predict the harm caused by risk as soon as possible, so as to avoid |

# LITERATURE REVIEW

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|---|---|---|---|
| 2021 | Guo Jing | Bohem risk management | The first stage was the risk assessment stage and risk control stage |
| 2021 | Wang Fang | EPWMID | E refers to the long-term plan,P is a plan, W stands for work, M represents measurement,I stands for improvement,D is representative discovery, |

# Methodology

Steps of Software Project Risk Management

1-Risk identification

- Brainstorming method
- Checklist method
- Flow chart analysis method

2-Risk assessment

- Risk factor analysis method
- Qualitative risk analysis method

# Methodology

Steps of Software Project Risk Management

3-Risk Response

- Risk avoidance
- Sharing risks
- Accept the risk

4-Risk Monitoring

- Risk reassessment
- Trend analysis method

# Risk Factors of Software Project

- Personnel shortage
- Unrealistic schedule planning and budget
- Wrong software functions are developed
- Developed wrong user interface
- Add unnecessary non functional requirements
- Frequent changes in requirements
- Insufficient real-time performance
- Computer power is limited

# Conclusion

Software risk refers to the uncertain factors or events in the software development life cycle that may lead to the loss of the development team or even the failure of the project. Compared with traditional projects, it is more difficult to monitor the progress or quality of software projects. In order to avoid risks and reduce losses, how to quickly identify and evaluate risks has become an important link in the process.

# THANK YOU