**St. Francis Institute of Technology** 

**(An Autonomous Institution)**

AICTE Approved | Affiliated to University of Mumbai

A+ Grade by NAAC: CMPN, EXTC, INFT NBA Accredited: ISO 9001:2015 Certified **Department of Information Technology**

Class: TE-ITA/B, Semester: V, A.Y.: 2024-25

Subject: **Software Engineering**

**ISE2- Home Assignment (based on Module 5)**

**Q. Prepare a risk table and RMMM plan for your mini project based on WBBM** Answer the above question with following information:

**1. Risk Table:** In this you have to list minimum 15 risks out of which 10 risks should be general and 5 specific to your mini project. Format is as follows:

| **Risk No.** | **Risk Name** | **Risk Category** | **Probability** | **Impact** | **Type** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |

Risk Category – 1. Business Risk Impact – 1. Catastrophic

2. Technical Risk 2. Critical

3. Project Risk 3. Marginal

4. Negligible

**2. RMMM Plan/RIS**: Prepare RIS for any 6 risks from the above risk table, which includes 1 general and 1 specific risk under each risk category (i.e. Business, technical & project). Format is as follows:

| **Risk no.:** | **Date:** | **Probability:** | **Impact:** |
| --- | --- | --- | --- |
| **Risk Name:** | | | |
| **Risk Mitigation:** | | | |
| **Risk Monitoring:** | | | |
| **Risk Management:** | | | |

**3. Sample risk table and RMMM Plan/RIS for railway reservation system.**

**St. Francis Institute of Technology** 

**(An Autonomous Institution)**

AICTE Approved | Affiliated to University of Mumbai

A+ Grade by NAAC: CMPN, EXTC, INFT NBA Accredited: ISO 9001:2015 Certified **Department of Information Technology**

| **Risk**  **No.** | **Risk Name** | **Risk Category** | **Probability** | **Impact** | **Type** |
| --- | --- | --- | --- | --- | --- |
| 1. | Funding will be lost | Business | 50% | 1 | General |
| 2. | Technology will not meet expectations | Technical | 30% | 3 | General |
| 3. | Integration of all various railway modules and databases | Technical | 70% | 2 | Specific |
| 4. | Power blackout in a region | Business | 30% | 2 | Specific |
| 5. | Employee turnover | Project | 30% | 3 | General |
| 6. | Inaccurate estimation of project complexity in terms of user traffic | Project | 50% | 1 | Specific |

| **Risk no.: 4** | **Date: 26/2/24** | **Probability:** 30% | **Impact:** 3 |
| --- | --- | --- | --- |
| **Risk Name:** Power blackout in a region | | | |
| **Risk Mitigation:**  Keep backup power source for servers so that system state can be saved and communication with other server is maintained. | | | |
| **Risk Monitoring:**  Ensure backups are made and main server is alive. Check files, dates and sizes. | | | |
| **Risk Management:**  Develop a comprehensive strategy which keeps server alive for maximum time after power failure else notify its state to other servers and avoid inconsistency. | | | |

**St. Francis Institute of Technology** 

**(An Autonomous Institution)**

AICTE Approved | Affiliated to University of Mumbai

A+ Grade by NAAC: CMPN, EXTC, INFT NBA Accredited: ISO 9001:2015 Certified **Department of Information Technology**

| **Risk no.: 5** | **Date: 26/2/24** | **Probability:** 30% | **Impact:** 2 |
| --- | --- | --- | --- |
| **Risk Name:** Employee Turnover | | | |
| **Risk Mitigation:**  Meet with current employee to determine causes for turnover, provide flexible working hours. | | | |
| **Risk Monitoring:**  Check attitude of team members in case of any office politics, review bonus structure and incentives. | | | |
| **Risk Management:**  Assign a backup staff for every critical technologist at the start of the project. | | | |

**Risk table will be same but RIS will be unique for each member**

**-shree ma’am**