**PROJECT NAME: ECOLIB**

**GROUP MEMBERS: Group 7 / Alp BOSTANCI, Alper Özgür ŞAHİN, Efe YOLARTIRAN, Havvanur KARAKAYA, Kaan OĞUZER, Tugay AVYÜZEN**

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| LIKELIHOOD RANK | RISK  DESCRIPTION |
| 1 | **Testing:** Risks in the testing process such as inadequate test coverage, inappropriate test environment, test data management issues and regression testing can affect software quality, delay on-time delivery and reduce customer satisfaction. |
| 2 | **Schedule Delays:** The project schedule might be unrealistic or unexpected delays might occur due to technical challenges or resource limitations. |
| 3 | **System Integration**: Integrating multiple systems can lead to compatibility issues, especially when dealing with hardware components like turnstiles and cameras. |
| 4 | **Unclear Requirements:** Incomplete or unclear requirements can lead to features that don't meet user needs or a system that is difficult to develop and maintain. |
| 5 | **Stakeholder Communication:** Poor communication with stakeholders (students, library staff, administrators) can lead to misunderstandings and resistance to the new system. |
| 6 | **Complexity of Image Processing**: Developing and implementing accurate image processing algorithms to identify occupancy and user behavior can be challenging. |
| 7 | **Resource Constraints:** Interruption or disruption of the flow of information and resources provided for the project disrupts the continuity of the project. |
| 8 | **Security Concerns:** The system will store student information and data on library usage. Measures need to be implemented to ensure data security and privacy. |

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| IMPACT  RANK | RISK  DESCRIPTION |
| 1 | **Security Concerns:** The system will store student information and data on library usage. Measures need to be implemented to ensure data security and privacy. |
| 2 | **System Integration**: Integrating multiple systems can lead to compatibility issues, especially when dealing with hardware components like turnstiles and cameras. |
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| LIKELIHOOD RANK | IMPACT RANK | COMBINED RANK | RISK  DESCRIPTION |
| 1 | 4 | 5 | **Testing:** Risks in the testing process such as inadequate test coverage, inappropriate test environment, test data management issues and regression testing can affect software quality, delay on-time delivery and reduce customer satisfaction. |
| 3 | 2 | 5 | **System Integration**: Integrating multiple systems can lead to compatibility issues, especially when dealing with hardware components like turnstiles and cameras. |
| 6 | 3 | 9 | **Complexity of Image Processing**: Developing and implementing accurate image processing algorithms to identify occupancy and user behavior can be challenging. |
| 8 | 1 | 9 | **Security Concerns:** The system will store student information and data on library usage. Measures need to be implemented to ensure data security and privacy. |
| 2 | 8 | 10 | **Schedule Delays:** The project schedule might be unrealistic or unexpected delays might occur due to technical challenges or resource limitations. |
| 4 | 7 | 11 | **Unclear Requirements:** Incomplete or unclear requirements can lead to features that don't meet user needs or a system that is difficult to develop and maintain. |
| 5 | 6 | 11 | **Stakeholder Communication:** Poor communication with stakeholders (students, library staff, administrators) can lead to misunderstandings and resistance to the new system. |
| 7 | 5 | 12 | **Resource Constraints:** Interruption or disruption of the flow of information and resources provided for the project disrupts the continuity of the project. |