

PROYECTOS DE INGENIERÍA Y GESTIÓN DEL SOFTWARE

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| REPORT NUMBER | 5 |
| TEAM NUMBER | 24 |
| TITLE | Risk discovery |
| DATE | 01/04/25 |

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|---------------------------------------|
| Participating members: |
| Antonio Medina Santana |
| Eduardo Etopa Lechuga |
| Francisco Javier López-Dufour Morales |

| Number | Risk | Category (T/M/O/E) | Probability (%) | Cost (€ or days) | Exposure (€ or days) |
|--------|--|-----------------------|--------------------|---------------------|-------------------------|
| 1 | Integration issues between the WebSocket-based real-time tracker and the backend API | T | 50 | 7 days | 3,5 days |
| 2 | The system may not be able to handle properly a lot of vehicles, drivers, or real time locations due to the database restrictions. | T | 20 | 20 days | 5 days |
| 3 | More rural or isolated zones of the places we are working in may have poor connection, which would lead to wrong real-time data. | E | 35 | 12 days | 4,2 days |
| 4 | Mid-development changes in client requirements regarding route visualization and ETA prediction | O | 30 | 10 days | 3 days |
| 5 | Team workload overload due to parallel tasks (e.g., backend deployment + UI refinement) | O | 20 | 10 days | 2 days |
| 6 | User interface is not intuitive enough for fleet managers with low tech literacy | T | 70 | 6 days | 4,2 days |
| 7 | Underestimated development time for implementing traffic-aware route tracking with MapBox/Google Maps API | M | 50 | 10 days | 5 days |
| 8 | Changes in data privacy regulations affecting user geolocation tracking | E | 15 | 15 days | 2,25 days |
| 9 | Lack of clear API contract between frontend and backend teams, causing delays in parallel development | M | 50 | 5 days | 2,5 days |

Instructions:

List the risks identified using Brainwriting after merging, refining your ideas, and selecting 10 of them. Classify them into technical, management, organizational, or external (there must be, at least, one of each category). Estimate the probability of occurring, the cost in money or time, and the exposure. Convert your document into PDF format and name it R5_XX.pdf, where XX is the identifier of your team.

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|----|---|---|----|--------|-----------|
| 10 | Limited QA/testing staff availability leading to delayed identification of integration bugs | O | 25 | 7 days | 1,75 days |
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