# Risk identification and management

## Project risks

|  |  |  |  |
| --- | --- | --- | --- |
| Probability | Description | Impact | Mitigation measure |
| 6 | Cant connect to servers | C | Test connections early on in the project, both with command prompt and with Java. |
| 4 | Calculating best travel route takes too much time and processing power | L | Test and optimize route search times. Distribute processing to clients. |
| 8 | Concurrent code run by different clients interferes with data accuracy. | H | Run multiple unit tests at once, provoke test exceptions, keep classes and methods small and testable. |

## Usage risks

|  |  |  |  |
| --- | --- | --- | --- |
| Probability | Description | Impact | Mitigation measure |
| 7 | User PDA cannot work (has low battery, no data plan, etc.) | C | Notify customer that battery level is low and to use other payment options. |
| 3 | Servers not working | H | Make the easy for managers to install new servers without additional setup (horizontal expansion). |
| 6 | Users not in the database | L | Message to register manually first or automatic registration upon connection with the train/bus computer. |

## Group risks

|  |  |  |  |
| --- | --- | --- | --- |
| Probability | Description | Impact | Mitigation measure |
| 3 | Someone leaves the group | H | Keep a friendly working environment and keep completed work shared with the group. |
| 4 | People not following meeting schedule | M | Open up to dialogue, if there’s an issue causing his absence. Implications to this is in the team agreement. |
| 7 | People are not working on their part. | H | Doing weekly team meetings and each presenting their work and opening up to questions. |
| 5 | Someone is going on vacation earlier | L | Plan well enough ahead for the person in question to finish his work before the vacation starts. |
| 4 | Members being sick | L | Talk about the possibility of working from home during that time. Maybe to document the currently completed work in the report. |
| 5 | Disagreements in group | L | The group needs to either vote on the best option, or leave the decision to a product owner to veto. |
| 4 | Running out time | L | Focus on making the simple solution first, test it, then branch out. |

**Probability range: 1-10**, with 10 being highest probability

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Impact note: | L | M | H | C |
|  | Low impact | Medium impact | High impact | Critical |