Functional Requirements

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| Label | Priority | Description |
| Setup | | |
| FR-SETUP-1 | MUST | GitHub repository with team members and lecturer added |
| FR-SETUP-2 | MUST | Task allocation table |
|  |  |  |
| Environment | | |
| FR-ENV-1 | MUST | Scale 1:10 |
| FR-ENV-2 | MUST | Track provided |
|  |  |  |
| Track | | |
| FR-TR-1 | MUST | Dimensions 7.5m x 3.5m |
| FR-TR-2 | MUST | Defined by solid and dashed lines |
| FR-TR-3 | MUST | Includes road signs e.g. stop sign, priority road |
| FR-TR-4 | MUST | Includes markers representing plants   * Healthy sugar beets * Diseased sugar beets * Weed |
|  |  |  |
| Vehicle / Robot | | |
| FR-VH-1 | MUST | Single camera as a sensor |
| FR-VH-2 | MUST | Must drive, cannot fly (no drones) |
|  |  |  |
| Task | | |
| FR-TASK-1 | MUST | Navigate autonomously |
| FR-TASK-2 | MUST | Drive in the right lane |
| FR-TASK-3 | SHOULD | Plan the shortest path |
| FR-TASK-4 | MUST | Identify plants, weeds, diseases, signs |
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