# Risk Documentation

# Smart House Project

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 2015-09-26 | 0.1 | Some possible risks for the device development | Jabir Al Fatah |
| 2015-10-17 | 0.1 | Some possible risks for the device development | Jabir Al Fatah |
| 2015-11-08 | 0.1 | Some possible risks for the device development | Jabir Al Fatah |
| 2015-11-25 | 0.2 | Some possible risks for the device development | Jabir Al Fatah |

Risk List

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| --- | --- |
| **Risk Description** | **Priority** |
| R1. If we don’t get a single device working (let’s suppose heating device or oven), it may cause an accident. | High |
| R2. If not everyone gets their parts done in time for any reason it will affect the whole project negatively. | High |
| R3. Sickness of any kind. | Medium |
| R4. Code may get too complex for us to complete the task. | Medium |
| R5. Problems with adding or modification of device management system. | Medium |
| R6. Computer broken | Medium |
| R7. Communication problem | Medium |

### R1. Prevention and management of risk 1

### *Impacts*

If we don’t succeed in getting an important device working, we fail to achieve our goal.

### *Indications*

We can’t test the function of the device before the whole project is done. Because the status must be updated into the database, besides the android application part must be done in order to test.

### *Mitigation Strategy*

Test routinely to make sure that all components are working.

### R2. Prevention and management of risk 2

### *Impacts*

If not everyone does what they are supposed to, the burden will increase on everyone since the others will have to help out to make finish the work. This may cause irritation within the group.

### *Indications*

The person never finishes his own part of job, or that he lies about how far he has come with the coding.

### *Mitigation Strategy*

Make sure everyone is aware about their task. We shouldn’t assign too much task to the person. Moreover, the responsible person or project leader should observe the progress.

### R3. Prevention and management of risk 3

### *Impacts*

Sickness can affect the other members in the group or the group as a whole. Because of this particular task remains undone and it badly effect the plan, schedule and finally the product.

### *Indications*

Someone is not making good progress as he is supposed to.

### *Mitigation Strategy*

Open discussion about each and everyone’s working progress will help us to getting know each other situations. That way we can know whether someone is healthy or sick, and finally we can avoid it.

### R4. Prevention and management of risk 4

### *Impacts*

If the code is too much complex or not easy to read, the further modification will be harder. Software evolution requires code modification and upgrading the version. This things will be tougher it the code is complicated.

### *Indications*

If the coding logic is very hard to grasp, the co-worker should discuss this issue with the developer. If there is no enough understanding about the code, it may indicate the wrong thing that affects others as well.

### *Mitigation Strategy*

We should discuss about the coding rules with the programmer, so that they keep them aware about this issue.

### R5. Prevention and management of risk 5

### *Impacts*

If we need to change the device set up frequently, it hampers our schedule and time estimation. Also it does cost.

### *Indications*

The bad quality of device and inaccurately setup the device requires the changes or modification. Some equipment stops working or doesn’t fit in that place that also one of the reason that we need to change the thing.

### *Mitigation Strategy*

Make sure that the equipment is correctly installed and the quality is good. It may avoid that unexpected occurrence.

### R6. Prevention and management of risk 6

### *Impacts*

Broken computer, program crash and unexpected data lost can delay the process of working project.

### *Indications*

Performance of a computer can be slower than usual. Or any other unexpected behaviour of computer can indicate the system failure early.

### *Mitigation Strategy*

With any indication of the risk, necessary action must be taken: either by changing or fixing the computer.

### R7. Prevention and management of risk 7

### *Impacts*

Delay in previously scheduled meeting with the members can destroy the work and plan.

### *Indications*

Delay with transportation or problem with any other communication media can cause the delay in meeting or communication.

### *Mitigation Strategy*

Finding any other way to communicate or working extra hours may solve the problem.