Budapesti Műszaki és Gazdaságtudományi Egyetem
Informatikai rendszertervezés (BMEVIMIAC01)

Smart-Hungarian-Railways

Homework

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1 Introductory

Our job was to extend the Intelligent Cargo Transportation within the frames of Smart-Hungarian-Railways with railway lines and a schedule planner.

1.1 Goal of the homework

Our goal was to extend the whole system model with every possible stakeholder, system context, subsystem and with all high level requirement and the connections between them.

1.2 Teamwork

Our work flow looked like the following: We had a meeting, where we discussed the customer specification and what to do until the next meeting. First, we did independent work. On the next job, we met through skype, and we did all the work together. On the next meeting we discussed and validated each others work, and tried to extend. We used **skype, facebook chat, e-mail and scrum board** for communication and to follow our work.

2 Important decisions

2.1 Passenger stakeholder

The trains needs to transport passengers too.

2.2 Environmental effect as system context

It is high level. We will extend it later if needed.

2.3 Ticket information

We planned that the ticket buying system will be an independent system. Our system will have an interface to communicate with it.

2.4 Scheduling system communication

The scheduling system needs to communicate with the following parts of the system:

- Zone controller → The client needs to know where is the train, the zone controller needs to know how to control the train.
- Transportation → Transportation needs to get the new lines/cargo to deliver, the scheduling system needs to get information about the state of cargo.
- Railway operator → The operator needs to intervene, the scheduling system needs to ensure an interface for the operator with the information of the trains and routes.
- Client → Client needs to give requests, and to get information about the state of his request.

3 Work log

Time	Working hours	Name	Comment
2016.09.23. 7:00	1 hour	Paróczi	extending stakeholders, system context
2016.09.25. 16:00	1 hour	Müller	extending functional diagram, schedule to glossary
2016.09.27. 8:00	1 hour	Müller	Extending func. diag., passenger use case diag.
2016.09.28. 15:00	1 hour	Gacsályi	schedule change, adaptive routing
2016.10.04. 17:00	1 hour	Paróczi	extend safety diag.
2016.10.06. 16:00	2 hours	Mindenki	extending and creating BDDs, and IBD
2016.10.07. 12:00	2 hours	Mindenki	extending IBD with ports and interfaces
2016.10.07. 15:00	1 hour	Gacsályi	extending IBD with interfaces
2016.10.08. 19:00	1 hour	Müller	PDF documentation