Exam System
Binnenvaart
België
History

- Started in 1991
- Long term vision > 10 jr.
- Sharp Focus
- Various competence centers
- Focus on new technologieën
- Total Solutions
- Benelux
- Private hold Company
Staff until 2010
Turnover until 2010
Cronos Location BNL
Representatives

Marc Kimpe
- Development Project leader
- Marc.kimpe@cronos.be

Tom Schrijvers,
- General Project leader
- Tom.Schrijvers@cronos.be
- +32 479 29 70 39
Features (Functional)

- Flexible Exam Structure
- Multimedia supported (sound, picture, movie)
- Multi-lingual
- Roles and responsibilities
  - Different Roles -> Different Functionality
- Modular / Expandable
  - More detail on next sheet
- Individual exams
  - Each candidate, different exams composition
Features (General)

- Easy to use
- Short Learning curve
- Web application
- Easy to create new exams
  - example: exam on other river
Features (Non-Functional)

- Access by private network or Web (if provided)
- High Security (Network, Data, Exam pc’s)
- Guaranteed response
  - By caching devices at Exam Centra (Antwerp, Liege)
- 99.8% Uptime
  - Highly reliable infrastructure and software solution
- Security of Exam Pc’ @ Exam Centra
- By Scripting
Demo Exam

Exam Rijn patent Geograph
Demo Exam Actors / Places

- Dossier Administrator @ Brussels
  - Kim Huysmans

- Superintendent @ Antwerp
  - Annemarie Van Passel

- Candidate @ Antwerp
  - Dirk Kieboom
Demo Exam (Previous to exam)

- **Candidate**
  - Requests an Exam Rhine Patent

- **Dossier Administrator**
  - Creates a Dossier
  - Checks if Candidate fulfills all necessary conditions (payment, age, experience, ...)

- **Candidate**
  - Gives preferred dates by eMail, phone,...
Demo Exam (Previous to exam)

Dossier Administrator

- Creates and plans exam session
  - Spijkse Veer to Düsseldorf
- Sends Invitation to Candidate
  - Includes Unique access token
Demo Exam (Day of exam)

- **Candidate**
  - Arrives at Exam Centre @ Antwerp

- **Superintendent**
  - Logs on with his credentials
  - Checks Candidates’ identity
  - Checks Planning and enables specific exam
Demo Exam (Day of exam)

- **Candidate**
  - Can start Exam with his unique access token
  - After exam candidate goes to Superintendent

- **Superintendent**
  - No results are communicated
Demo Exam (Day after exam)

Dossier Administrator

- Starts workflow
  - (To validate, plan, ...., sending Result letters)
- if Candidate didn’t succeed, deliberation is possible
Explanation Datamodel

- Candidate
- Dossier
- Exam Session
- Included Section
- Chapter Rule
- Included Case Study
- Included Question
- Selected Answer
- Exam
- Exam Part
- Section
- Chapter
- Case Study
- Question
- Possible Answer
- Question Type
- Exam Kind
- Category
- Exam Type
Explanation Datamodel

- Exam Kind
- Category
- Exam Type

- Exam
  - Exam Part
    - Section
      - Chapter Rule
        - Chapter
          - Case Study
            - Question
              - Possible Answer
              - Question Type
Candidate

Certificate

Dossier

Exam Session

Exam

Exam Kind

Category

Exam Part

Exam Type

Included Section

Section

Chapter Rule

Chapter

Included Case Study

Included Question

Selected Answer

Possible Answer

Exam

Exam Part

Section

Included Case Study

Included Question

Selected Answer
New Exam related to Datamodel

- Candidate
  - Dossier
  - Exam Session
  - Included Section
    - Included Case Study
      - Included Question
    - Chapter Rule
      - Chapter
      - Case Study
    - Included Question
  - Exam
  - Exam Part
    - Section
  - Exam Session
    - Possible Answer
  - Exam Part
  - Exam
  - Candidate
  - Certificate

- Exam Kind
- Category
- Exam Type
- Question Type
- Question
  - Possible Answer
  - Selected Answer