

## DIPLOMA THESIS

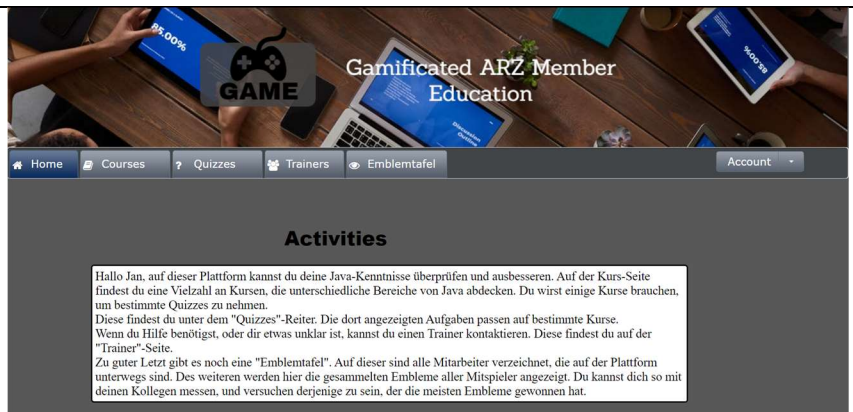
### Documentation

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Form Academic year	5AHWII 2018/19
Topic	Development of a training tool for employees
Co-operation partners	ARZ – Allgemeines Rechenzentrum

Assignment of tasks	The task is to program a platform, where members of the ARZ can improve their programming knowledge with quizzes and courses. The system should be easy to use. Furthermore, there must be a point system which rewards the users and lets them compare their points with other users. There should be a “leaderboard” where every member can check their progress.
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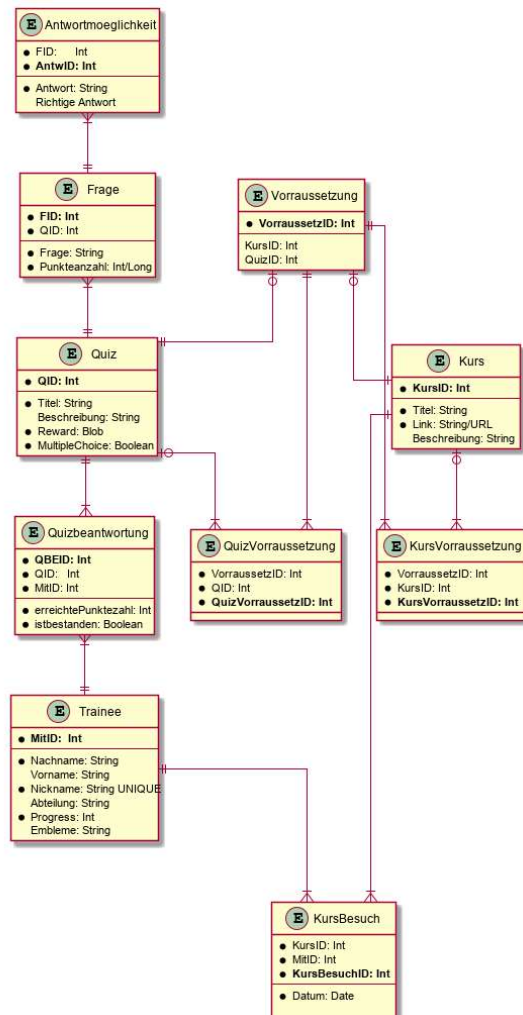
Realisation	The design and the website itself were programmed with Java EE, HTML and CSS. The database with all the required data was set up with PostgreSQL and the connection to the website is ensured through the Java Persistence API.
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Results	The learning platform was created. Users can take quizzes and courses on the page. Furthermore, they can check their progresses on the so called “Emblemboard”. Every member gets rewarded for successfully completing a quiz with an emblem. The finished product was agreed upon with the stakeholders.
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This is the homepage that pops up when the user visits the platform.

Illustrative graph, photo  
(incl. explanation)



The ER-Model shows the structure of the database.

Participation in competitions  
Awards

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	<b>HÖHERE TECHNISCHE BUNDESLEHRANSTALT HOLLABRUNN</b> <b>COLLEGE of ENGINEERING</b>	
	Department: <b>Industrial Engineering</b> Educational focus: <b>Business Information Systems</b>	

Accessibility of diploma thesis	HTBL Hollabrunn
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Approval (date / signature)	Examiner	Head of College / Department
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