# Internship / Graduation Assignment Approval

*To be completed by student*

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| **Student** |  |
| Name: | Svetoslav Stoyanov |
| Student number: | 3793222 |
| Course: | Software Engineering |
| Internship or Graduation: | * Internship |
| Telephone number: | +359892701363 |

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| **Company** |  |
| Name: | Genzai B.V |
| Department: | IT |
| Address: | Villafloralaan 1 |
| Postcode + Place name: | 5928 SZ Venlo |
| Country: | The Netherlands |
| Website: | https://[www.genzai.nl/](http://www.genzai.nl/) |

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| **Company supervisor** |  |
| Name: | Roy Lenders |
| Job: | CEO Genzai |
| Telephone: | 06-18035772 |
| Email: | [roy.lenders@genzai.nl](mailto:roy.lenders@genzai.nl) |

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| **Project (description in annex)** | |
| Working title (5 words): | Design, Build, Back-end, Onboarding process |
| Intended starting date: | 01.02.2023 (1st of February 2023) |

*Approved by course lecturers*

I, the undersigned, have taken note of the assignment (in annex) and the internship/graduation place and judge both positively.

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| Lecturer name 1: |  | Lecturer name 2: |
| Date: |  | Date: |
| Signature: |  | Signature: |

Please send this approval form **including the (completed) assignment description template (p. 2)** to [fhtenl-stage@fontys.nl](mailto:fhtenl-stage@fontys.nl) by email.

# Internship/Graduation Assignment

## Student

Name : Svetoslav Stoyanov

Student number : 3793222

Study career counsellor :Frank van Gennip

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| **Company description / Context (obligatory):** | |
|  | Genzai B.V. is an A.I. investment company which works together with industry partners in building Deeptech based start-ups. At the moment Genzai is involved in 14 different start-ups from a broad range of different industries.  Genzai is working together with ViaLuxury (vialuxury.com) which is a luxury hotel booking website. ViaLuxury focuses on selling the overcapacity of 4 and 5 star hotels in package deals. They currently work with 100 hotels in the Netherlands and Belgium but want to quickly expand across Europe in the next few years. |
| **Problem (obligatory):** | |
|  | Currently Hotels manually contact clients to offer them different packages with a discount,  Our idea is that hotels across Europe can register themselves on the website, upload photos, fill in the descriptions and can configure package deals (for example hotel together with a dinner or a massage etcetera).  During the onboarding process the hotel should be advised on different areas like pricing, package deals etcetera. |
| **Assignment description (obligatory):** | |
|  | Designing and building a website that allows for hotels to register and upload photos, fill in the descriptions and can configure package deals (for example hotel together with a dinner or a massage etcetera. During this process (Onbroarding process) the hotel should be advised on different areas like pricing, package deals and should be able to select advised options.  A database should be designed and build to store the hotels, the database should be connected to API endpoints for this functionality scope.  Moreover, the algorithms (back-end calculations) for advising hotels should be designed and build.  My part is also to Build and test all API endpoints and support the front-end resource in connecting front-end with back-end (Collaboration with another employee).  The current situation is that, if a hotel wants to create a package deal, the employees need to contact ViaLuxury via phone or email including photos and other details about the package deal. |
| **Final products/objectives (obligatory):** | |
|  | The final product is a system (website or possibly mobile) which allows hotel administration to register their hotel on it and upload photos, fill in the descriptions and can configure package deals (for example hotel together with a dinner or a massage etcetera).  During the onboarding process (explained above) the hotel should be advised on different areas like pricing, package deals etcetera by the system. |

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|  | Deliver good quality, readable and scalable code.  Document research and code done in a professional manner. |
| **Preconditions (obligatory):** | |
|  | Technologies used will be FastAPI (for the API portal), Vue.js (front-end), Amazon Cloud and Python as language in the back-end.  Research topics should include:  “What packages are sold the most by 4 and 5 star hotels”. And other topics about packages and hotels.  The competences shown by me would be test-driven development, build back-end architecture, implement various development principles and others. |
| **Other remarks (optional):** | |
|  | I cannot be certain of some things, since they may change at some point, like research topics, most likely there will be more topics to research.  Also I may show different competences learned at Fontys, that I do not think of now.  But what is certain is that my part is back end + database development, tests included. Code written, should be readable, understandable, and scalable. |

Student declares to be aware of the Regulations and Admission Requirements.

Author of the assignment description (student name):\_ Svetoslav Stoyanov

Drawn up on (date):

14.11.2022

# Explanatory notes to Internship/Graduation Assignment Approval

## Please read the Internship/Graduation Regulations, notably Chapters 1-3 COMPANY DESCRIPTION / CONTEXT

Describe the project’s context:

Here, consider, for instance, the following questions:

* Describe the organisation *and* more specifically, your department. How many employees are there in total and how many in your department?
* What services / products does the organisation supply and more specifically, your department?
* What are important developments and/or changes?
* Who are its customers / target groups?

## PROBLEM

Describe the problem, in other words, why has the company formulated this assignment: Here, consider, for instance, the following questions:

* What is the cause of the problem?
* Definition: who has got the problem?
* Definition: what is the extent of the problem?

## ASSIGNMENT DESCRIPTION

In the assignment description:

* You describe in one sentence/paragraph what assignment you are given by the company (concisely).
* Indicate clearly *where* the research part lies.

In your substantiation, you describe what profession-specific competences you are going to work on and how you are going to do it.

In addition, you can:

* describe the assignment. For instance: research, engineering, programming, designing, production-technical, problem-solving, feasibility study;
* describe any sub-assignments;

## FINAL PRODUCTS/OBJECTIVES

Answer these questions:

* What final products (deliverables) are produced?
* What objectives (SMART) will have been achieved at the end of the assignment?

## PRECONDITIONS

Answer, at least, these questions:

* What tools have you got at your disposal to realise the required final products/objectives?
* Is the supervision effective?
* Does your workplace meet the conditions to enable you to carry out the assignment? If it does, what conditions?

- Tip: Read Chapter 3.4 of the Regulations

## OTHER REMARKS

Think, for instance, of confidentiality (Chapter 6.4 of the Regulations).