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Blockchain-vaardigheden voor ICT-professionals - BLISS

Doelstellingen, activiteiten en resultaten



BLISS Overview

DOEL VAN HET PROJECT

Verdere versterking van sleutelcompetenties op het gebied van beroepsonderwijs en -opleiding voor ICT-professionals, door middelen en materialen te ontwikkelen en beschikbaar te stellen om bestaande zakelijke vaardigheden en mismatches aan te pakken, als gevolg van de dynamische penetratie van blockchain-technologie in alle sectoren van de EU-economie

BELANGRIJKSTE OPBRENGSTEN

- 5 intellectuele opbrengsten
- Open educatieve bronnen
- 1 Trainer handboek
- Inhoud en kader voor de Vocational Open Online Course
- 3 demonstratiewerkshops
- 3 informatiedagen
- Aanvullend certificaat Blockchain-vaardigheden
- 1 standpuntnota

DOELGROEPEN

- ICT-professionals die behoefte hebben aan CVET
- Studenten die ernaar streven om als Blockchain-ontwikkelaars aan de slag te gaan
- BOO-aanbieders
- Vertegenwoordigers van de sector
- Andere geïnteresseerde leerlingen



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Doelstellingen

BLISS heeft tot doel de vaardigheden en competenties van ICT-professionals te verbeteren door:

- Het ontwikkelen en beschikbaar stellen van **educatieve middelen en materialen** om te voorzien in bestaande beroepsbehoeften en mismatches, als gevolg van de dynamische penetratie van, boekhouding, audits en overheidsdiensten
- Hoogwaardige **OERs blockchain-technologie** te in alle sectoren van de EU-economie (inclusief het bankwezen), om de opname van ICT in onderwijs en opleiding te verbeteren
- De ontwikkeling van een **Vocational Open Online Course (VOOC)** infrastructuur en inhoud voor de ondersteuning van grootschalige en open access-deelname aan trainingsactiviteiten

STARTDATUM: 01-10-2017

DUUR: 30 maanden

EINDDATUM: 31-03-2020



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BLISS Partnerschaft

Partner	Official Name	Country	Role
UCBL	UNIVERSITE LYON1 CLAUDE BERNARD	France	Coordinator/Project management team
BT	BUSINESS TRAINING SA	Belgium	Partner
AICA	AICA ASSOCIAZIONE ITALIANA PER L'INFROMETICA E IL CALCOLO AUTOMATICO	Italy	Partner
EXELIA	EXELIA.E.E.	Greece	Project management team
UT	TARTU ULIKOOL	Estonia	Partner
TELESIG	TELESIG LTD	Bulgaria	Dissemination Leader



Business
Training



AICA



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Geïmplementeerde Taken 2e Semester

April 2018 - September 2018

- BLISS leereenheden: curriculumoverzicht
- Richtlijnen voor beroepsonderwijs en -opleiding
- Platform identificatie en onderzoek voor de Vocational Open Online cursus
- 2e projectvergadering in Brussel



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Projectvoortgang 2e Semester



BLISS Learning Units

- **Eenheid 1:** Blockchain essentials voor ICT-professionals
- **Eenheid 2:** Blockchain-platforms
- **Eenheid 3:** Communiceren van de zakelijke verdiensten, uitdagingen en implicaties van blockchain-technologie
- **Eenheid 4:** Praktisch ontwerp en ontwikkeling van blockchain-applicatie



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Leereenheid 1

Title	U1: Blockchain essentials for ICT professionals		
EQF level	EQF 4		
Abstract	Defines the essential blockchain characteristics. Addresses the fundamental features of blockchain technology		
Learning Outcomes	<ul style="list-style-type: none">• Give an account of the advantages and disadvantages of the features of a specific blockchain application, namely in terms of security, decentralization and consensus attainment• Autonomously explain the operation of a smart contract in a given blockchain scenario		
Skills developed	<ul style="list-style-type: none">• Identify blockchain characteristics in a given setting• Analyse existing blockchain applications according to a given context	<ul style="list-style-type: none">• Critically evaluate cryptography features to a blockchain application• Identify crucial security attributes in a blockchain• Differentiate decentralized autonomous systems, such as distributed ledgers suitable to a given blockchain application	<ul style="list-style-type: none">• Select consensus algorithms suitable for specific blockchain applications• Formalise and assess smart contracts adequate to given blockchain contexts



Leereenheid 2

Title	U2: Blockchain platforms		
EQF level	EQF 4-5		
Abstract	Selects appropriate technical options for blockchain design and implementation. Specifies, refines, updates and makes available a formal approach to design solutions, necessary to develop and operate a blockchain application.		
Learning Outcomes	<ul style="list-style-type: none"> • Evaluate the feasibility of implementing the specified decentralized blockchain application within a suitable blockchain platform • Provide expertise to report on a detailed plan of tests of the specified decentralised blockchain application 		
Skills developed	<ul style="list-style-type: none"> • Identify the differentiating characteristics of the various blockchain platforms • Analyse and characterise different blockchain protocols according to given criteria 	<ul style="list-style-type: none"> • Select and formalise requirements of a blockchain protocol for specific scenarios 	<ul style="list-style-type: none"> • Plan and design the specifications of a decentralized blockchain application for a given scenario



Leereenheid 3

Title	U3: Communicating the business merits, challenges and implications of blockchain technology		
EQF level	EQF 5-6		
Abstract	Introduces how the characteristics of blockchain technology can disrupt and/or innovate existing business models and business processes. Examines existing blockchain-based use cases in industries such as finance, public services, provenance, supply chains etc.		
Learning outcomes	<ul style="list-style-type: none"> • Interpret the legal, regulatory and consumer challenges to wider blockchain adoption and conformance • Monitor and intervention of blockchain technology in business models • Analyse blockchain SWOT (strengths, weaknesses, opportunities and threats) for specific industry scenarios • Intelligibly present blockchain industry business models • Communicate business opportunities behind the limits of the blockchain 		
Skills developed	<ul style="list-style-type: none"> • Recognise potential regulatory and legal frameworks for blockchain operation, including consumer protection and taxation 	<ul style="list-style-type: none"> • Provide detailed examples of the blockchain transforming power in specific contexts • Project strengths and weaknesses of the blockchain technology in a given scenario 	<ul style="list-style-type: none"> • Describe blockchain business and business logics • Outline latest trends in the blockchain technology, and the directions of growth across impacted industries



Leereenheid 4

Title	U4: Practical design and development of blockchain application		
EQF level	EQF 5-6		
Abstract	Introduces process and state-based modelling languages suitable for requirement analysis and design of blockchain applications. Identify a use case, selection of suitable platform, design a solution that delivers value, and develop a proof of concept in accordance with defined specifications.		
Learning Outcomes	<ul style="list-style-type: none"> • Critically evaluate the technical options for blockchain solution suitable to varied practical scenarios • Report on the feasibility of selected blockchain solution to the specific scenarios • Account for optimisation of application development, maintenance and performance by employing design patterns and by reusing proved solutions • Autonomously report on the advancement of the application development 		
Skills developed	<ul style="list-style-type: none"> • Examine the key characteristics, potential benefits and challenges of blockchain in different types of scenarios, such as the banking and finance sector, business operations, public administration and government services 	<ul style="list-style-type: none"> • Collect, formalise and validate functional and non-functional requirements of given scenarios • Explain and communicate the design/development of use case/POC, at their different phases, to potential users and stakeholders 	<ul style="list-style-type: none"> • Perform tests and evaluate test results against POC specifications • Develop and apply appropriate software architecture



Beoordelingsmaterialen

40-60
dictaten /
presentatie-
dia's

20-30
multiple
choice
vragen

5-10 korte
antwoord-
vragen

2-3 case
studies

2-4 getimede
categorisatie-
oefeningen



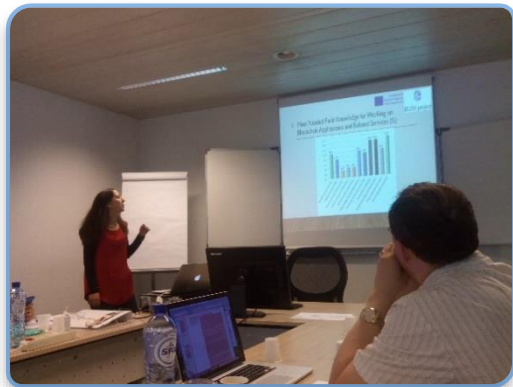
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2e Transnationale Projectbijeenkomst - Brussel

- Datum: 23-24 mei 2018
- Locatie: Business Training kantoren - Brussel
- Met de deelname van alle projectpartners. De vergaderagenda besprak de voortgang van het project en de komende activiteiten en taken



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Contactinformatie

Naam Partner: (voeg de gegevens van uw organisatie toe)

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LinkedIn: <https://www.linkedin.com/company/bliss-blockchain-project>



Facebook: <https://www.facebook.com/blissproject2017/>



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