



Co-funded by the Erasmus+ Programme of the European Union

Gamifying Academic English Skills in Higher Education: Reading Academic English App (StratApp)

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- Background of the project
- Overall aims of the project
- Collaborating institutions
- Description of the project
- Development of the App
- Initial advances of the project
- Final remarks



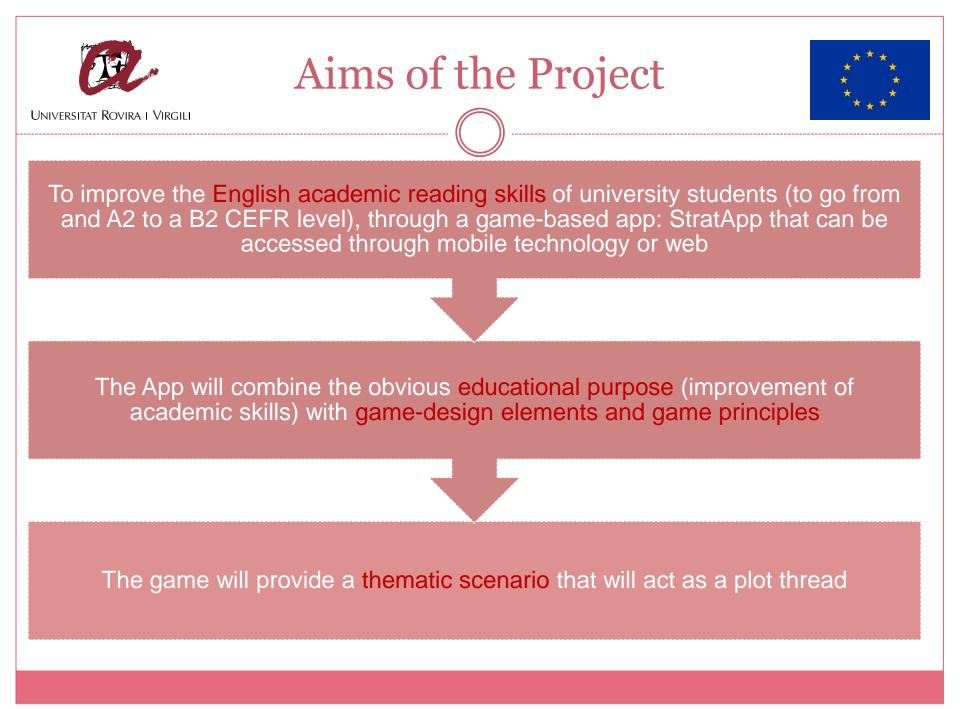


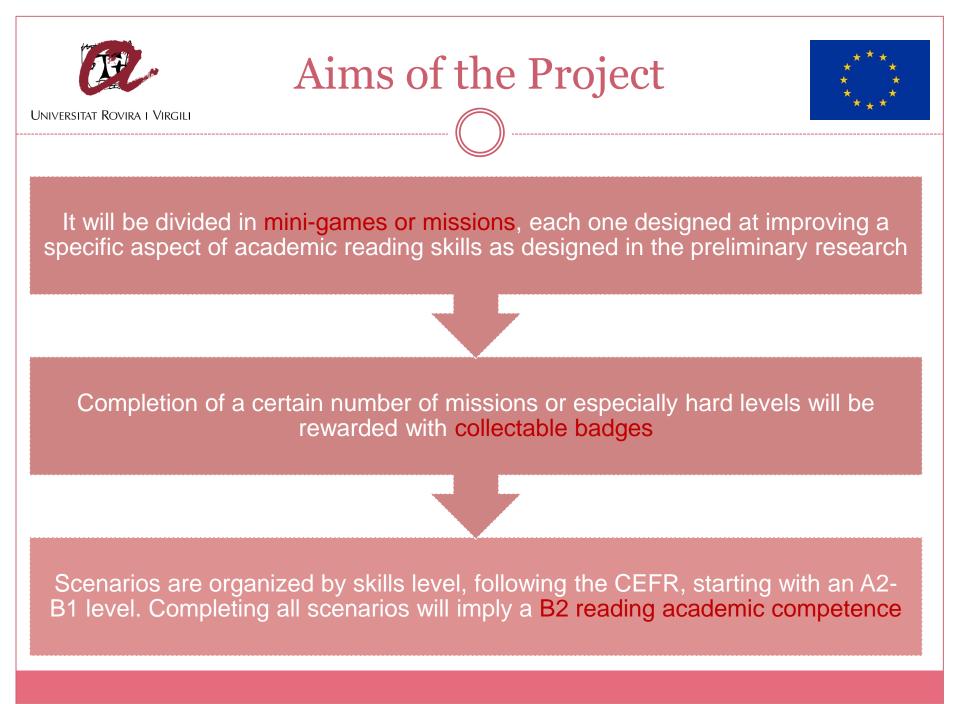




Why reading skills?

- Sts encounter difficulties when dealing with academic texts(Dhieb-Henia 2004, Hellekjær 2009, Nergis 2013)
- □ The First European Survey on Language Competences (2011, p.4) → the percentage of secondary students having achieved at least a B1 CEFR in general English reading is the following:
 - □ France 13%, Spain 24%, Poland 24%
- □ The minimum required level \rightarrow a B2 CEFR
- In the European Framework for Content and Language Integrated Learning (CLIL) Teacher Education (2014) → communication in foreign languages is one of the eight interdependent key competences defined under lifelong learning
- Academic reading skills are a cross-sectional competence that enhances linguistic competence in foreign and mother tongue.









IO1	DE PAU ET DES PAUS DE L'ADOUR

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Publication of reading skills and strategies

- An extensive review of the literature on the relevant areas.
- A study of the reading strategies actually used by students, by means of in-depth interviews and questionnaires (specifically designed for the purpose).
- An assessment of the pedagogical validity of the strategies.
- A detailed list of the strategies and skills that will be learnt by the students by means of the app developed within the project.



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Pedagogical design of the App

- The Analysis stage is to identify the differences between the targeted user group and their contexts, and other learners and their context
- To analyze the differences at the level of learner, teacher, content, pedagogy (teaching, learning and testing models), ICT and infrastructure
- The Design stage is the most important part of the creation process. It consists of three substages: conceptualization, specification and prototyping.



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IO2









- Conceptualization →a concept based on a deep analysis of subconscious learner goals (Colpaert 2010) in order for our app to create acceptance and willingness in the users' mind.
- Specification → the ontological description of the software architecture to be created, with special emphasis on the required linguisticdidactic functionalities.
- Prototyping→the proper App development.
- Based on the design (conceptualization and specifications reached through analysis)→creation of A2 to B2 materials for the app.



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Teachers' Manual and Online Guide Book

- Downloadable guide for users and creation of new materials.
- Support material for the future creation of new materials by teachers, developments or every one who wants to use the App will be created.
- Solutions for the activities will be compiled in the shape of a teacher's manual or online walkthrough.
- Instructions for the design of future activities will also be presented so in the future, instructors will be able to create more materials that might become part of the game App in posterior reviews.



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StratApp for Android and iOS

- The StratApp is going to be a mobile (and Web) App: m-learning game for mobile devices.
- The App will be usable in the following mobile platforms: iOS (iPhone, iPad) and Android (Android based smartphones and tablets with touchscreens).
- The App will be synchronized with the external Content Management System (CMS), which will be used to upload new games-lessons and update the already uploaded ones.



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StratApp for Android and iOS

Three basic assumptions will be taken into account:

- The app must be motivating (fun), in order to attract even those students who are not eager to learn.
- The app must provide the gamers with the opportunity to improve their language skills.
- The app should be updatable, letting the administrator add new levels or materials through a specific Content Management System based on the teachers' input.



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StratApp for Android and iOS

The app will have the following characteristics:

- Diverse: It will include different types of games/activities, to improve the reading of academic texts (A2-B2 CEFR level).
- Stratified: when the users finish a given level, they go to the next one, get extra points and may compare their results with others.
- Updatable: the texts of the particular games are being edited by the external CMS which lets the project develop in the long-term perspective.



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StratApp CMS and Database

 Allow both the data mining and the project partners to edit and upload the e-learning contents (questions, answers, descriptions), respectively, which will be automatically updated in the mobile app.

The CMS will have the following functions:

- Adding and editing system users editors responsible for edition and upload m-learning contents.
- Adding and editing the games included in the App.
- The content uploaded into the platform through the CMS will consist of texts, audio files, photos and films.



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StratApp CMS and Database

- A database will be designed to store information about the application usage by gamers (e.g. the level each user is, how many attempts are made, how long is spent at screen or level, etc).
- Synchronization and sending session data from the webapp and the App to the database: (e.g. each time a user closes a session or when he moves to a different level or solving a special type of test, the webapp and the app will send the information to the database).
- With the use of data collected and processed, some mechanisms will be implemented in order to make periodic reports and obtain adhoc information from the database.



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List of reading strategies and skills

General skills & strategies:

- Scanning (specific info)
- Skimming (reading for gist)
- Word recognition & vocabulary development
- Syntactic parsing (Once the words are understood, the structure needs to be processed to access meaning)
- Recognising discourse organization/genre
- Reading strategies that support comprehension
- Fluency
- Critical reading
- Genre/discourse structure





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Texts to be used in the App

- Overall topic: Educational Sciences
- A2/B1 Texts not fully academic related to education topics, made more "academic-sounding" by means of a series of changes
- B2–Papers from academic journals, simplified to make them accessible to users, by means of a series of changes

Activities to include in the App

Vocabulary:

- According to Grabe (2009), for effective reading, a learner should know 95% of the words in the text. Given the level of the potential users of the App, they will know the first 2000 words of West's General Service List (1953)
- In the App the emphasis will be put on the Academic Word List (AWL) (Coxhead 2000)



- Grouped into the AWL's sublists (starting with the most frequent words in each), different types of exercises will be created:
 - Multiple choice
 - Match 10 sentences with a blank space with 10 words
 - Gapfill

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- Exercises in which students first read a text and then do a gapfill
- Exercises to help students guess the meaning of unknown words using affixes

Skimming:

Students read text in a given time and then solve exercises.

- T/F statements
- Y/N questions
- Multiple choice questions



Scanning:

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Students read text in a given time and then solve exercises.

□ Write specific symbol or group of symbols

Recognize discourse structures (connectors, repetitions, synonyms, etc):

Students read text and then solve exercises.

- Highlight specific elements in text, starting with easy ones and increasing difficulty gradually
- Multiple choice questions
- □ Fill in a table, chart, graph, timeline, tree or similar graphic form
- Choose the order of sentences that would make a good outline of text
- Match main ideas and supporting information across two columns
- Reorganise scrambled paragraphs and sentences to make a good summary



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Recognize rhetorical patterns (comparison and contrast, cause and effect, chronological order, etc):

Students read text and then solve exercises.

- T/F statements
- Y/N questions
- Multiple choice questions
- □ Fill in a table, chart, graph, timeline, tree or similar graphic form

General comprehension of texts:

Students read text in a given time and then solve exercises.

- T/F statements
- Y/N questions
- □ Pronominal questions: who, what, when, how, why, etc.
- Multiple choice questions
- Sentence completion (exact copies of sentences in text; missing words; sentences not exactly as the ones in text, but talking about the same idea; missing words are not in text, so learners must use their vocabulary knowledge).



Develop reading fluency (push sts to read faster than they would):

Students do paced readings and then solve exercises. Especially good with 400-word texts.

- Students are imposed a given pace, e.g. 200 WPM. Text is divided into 100-word chunks. After 30 s, they move to next chunk (even if they haven't finished), etc. The score in comprehension should be 7 or 8 out of 10. App will log these results so that students can keep track of how they are doing.
- Students do timed readings and then solve exercises. Students take the time they need (which is logged). Texts of 500-1000 words.

Types of exercises:

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- T/F statements
- Y/N questions
- Multiple choice questions



Final Remarks



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Dissemination

- Online and offline dissemination activities
- Offline: Participation to university fairs, conferences, events, etc, printed materials (flyers, posters using QR codes to get more information about the App)
- Online: news & ads on university websites, occasional emailing, publication on university social networks (Twitter, Facebook)
- □ IO1 \rightarrow completed and in the process of publication
- □ IO2 \rightarrow design and material creation

 \rightarrow questionnaire to find out learners' reading habits

Project webpage to update provisional results under construction

