



Assessment of Innovation Form

ID and Title of the Project: Article Lens

Team Member IDs: 22103242 – 22003168 – 22002948 – 22003325 - 22102314

Name of the Supervisor: Murat Kalender

Below questions needs to be filled by the Innovation Expert

Considering the definition of innovation as “creation of better or more effective products, systems, services, or technologies that have the potential to be accepted by markets, governments, and society”, please assess the innovativeness of the design project with below questions.

1) The project and subject that is proposed and presented to you is:

Criteria	Poor	Unsatisfactory	Satisfactory	Good	Outstanding
Technically feasible:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
You see enough market demand:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Development planning is done well	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Enough research done for marketplace and competitors	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivers enough value or solves a real problem	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2) What is the nature of the innovation you see in this project? Do you have any suggestion to improve converting the knowledge and idea of the subject more into benefit and value?

The innovation in the Research Buddy project lies in its ability to personalize research paper recommendations and reading paths by leveraging user queries and criteria like relevance, citation count, and complexity. To enhance the value further, incorporating **Graph RAG** techniques for community detection and hierarchical summarization could provide more structured insights and connections between papers, offering users a broader understanding of research trends. Additionally, improving the scoring system with dynamic, user-adjustable metrics could make the tool more flexible and impactful for diverse research needs.



Bilkent University
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CS 491 Senior Design Project I

2) Are there any unaddressed risks that team members need to consider during implementation?

Scalability and Efficiency: As the system processes large volumes of research papers daily, there may be performance bottlenecks in indexing, summarization, and ranking. The team should ensure that the infrastructure can handle this growing data efficiently.


3) Any suggestions while shaping go to market strategy?

Target academic institutions, research organizations, and individual researchers who are overwhelmed by the volume of new papers, positioning Research Buddy as a tool that enhances productivity by delivering personalized, high-quality research insights. Focus on partnerships with publishing platforms like Arxiv and offer tiered subscription models, with premium features like customizable scoring and advanced reading paths for professionals and organizations.

Innovation Expert

Name: Murat Kalender

Date: 18 / 10 / 2024

Signature: 

Final Expert Score:.....5 (out of 5)

Scale:

(1) Poor, (2) Unsatisfactory, (3) Satisfactory, (4) Good, (5) Outstanding