Student Personal Sustainability Assistant

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1 Introduction

- Selected sustainability aspect properly justified (3

marks);

- Justification uses appropriate references (3 marks)

- Appropriate method to derive requirements is used (3

marks)

- Description of requirements (3 marks)

2 Architecture

- Architectural diagram appropriate (3 marks)

- User data collection properly described with clear indication

of what implicit and explicit methods are used (3 marks)

- User model representation properly described, diagrams and

illustrations are used appropriately (3 marks)

- User modelling method properly described (3 marks)

- User model application properly described (3 marks)

- User-adaptive interface properly described (3 marks)

3 Methods

- The selection of the recommender method properly justified

(3 marks)

- The justification uses appropriate references to user-adaptive

systems that use this recommender method (3 marks)

- Background data properly described (3 marks)

- Input data properly described (3 marks)

- Appropriate description how background and input data will

be used to produce recommendations (3 marks)

4 Critical review

- Strength 1 (2 marks)

- Strength 2 (2 marks)

- Strengths include clearly specified computational aspect and

a human factors aspect (2 marks)

- Limitation 1 (2 marks)

- Limitation 2 (2 marks)

- Limitations include clearly specified computational aspect

and a human factors aspect (2 marks)

5 Link to prototype

- User scenario appropriate (3 marks)

- The prototype demo shows clearly what data is collected

about the user (3 marks)

- The prototype demo shows clearly what information is

shown to the user (3 marks)

- The prototype demo shows clearly how the system adapts to

the user (3 marks)

- The prototype meets the requirements specified in the

introduction (6 marks)

6 Reference list

Tai, W.X., Lan, T., Wu, Z.F., Wang, P.Y., Wang, Y.X., Zhou, F. 2022. Improving session-based recommendation with contrastive learning. User Model User-Adap Inter. Available from: <https://doi.org/10.1007/s11257-022-09332-z>

Logesh, R., Subramaniyaswamy, V. and Vijayakumar, V. 2018. A personalised travel recommender system utilising social network profile and accurate GPS data. Electronic Government, an International Journal. 14(1), pp.90-113.

Renjith, S. and Anjali, C. 2014. A personalized mobile travel recommender system using hybrid algorithm. First International Conference on Computational Systems and Communications (ICCSC). pp. 12-17.