

# ***IMPLEMENTATION OF THE GREEDY BEST FIRST SEARCH ALGORITHM IN SERVICE PROVIDER INFORMATION SYSTEMS***

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## ***Abstract***

*Services are activities or benefits that are sold such as workshops, courses, or telecommunication services that fulfill our needs and wants in our daily lives. In society, interdependence with others is common. With the diversity of services available such as photography, laundry, and others, services play a vital role in our lives. However, the lack of information regarding the availability of services can be an obstacle especially for new students who migrate. To overcome this, a service provider information system with a shortest route search feature was created. This platform allows individuals and companies to offer services to potential customers, using the Greedy Best First Search Algorithm for efficient search. This research focuses on the areas of Sungai Alam Village, Air Putih Village, and Senggoro Village. The system also provides a chat feature between service providers and consumers, and allows service providers to upload their services. It is hoped that this system will help promote services and facilitate the search for the shortest route for users. By applying the Greedy Best First Search Algorithm, the system offers the best solution in finding the shortest route. Thus, this research aims to provide a practical solution to meet the needs of services in the community through information technology.*

***Keywords:*** : *services, Greedy Best First Search, and Waterfall.*