

ABSTRAK

IMPLEMENTASI ALGORITMA DIJKSTRA UNTUK RUTE TERDEKAT DAN ESTIMASI BIAYA PERJALANAN DINAS

(Studi Kasus PTKIS Kopertais II Jawa Barat dan Banten)

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Coordinatorate of Islamic Higher Education (Kopertais) of Region II of West Java and Banten continues to make antisifatif and strategic steps, that is through various programs and training activities to achieve quality and quantity in PTKIS, The geographical area of Kopertais II region of West Java and Banten requires personal, personnel, expenses and special program of visits to all PTKIS in region II to be able to be reached at the same time periodically. In this research will create an android application system that can be used to get the nearest route and estimated travel expenses of official duties that can be input by Staff, then the estimated cost will be calculated by Financial Staff and will be confirmed by the Financial Leader in web service, the implementation of the algorithm dijkstra. Koordinatorat College of Islamic Religion (Kopertais) region II West Java and Banten continue to make efforts antisifatif measures and strategic, ie through various programs and training activities to achieve quality and quantity in PTKIS, The geographical area of Kopertais region II West Java and Banten need personal, personnel, expenses and special program of visits to all PTKIS in region II in order to be reachable at the same time periodically. In this research will create an android application system that can be used to get the nearest route and estimated travel expenses of official duties that can be input by Staff, then the estimated cost will be calculated by Financial Staff and will be confirmed by the Financial Leader in web service, implemented from the dijkstra algorithm.

Keywords: Nearby routes, Travel Expense Estimates, Dijkstra Algorithm, Android.

Koordinatorat Perguruan Tinggi Agama Islam (Kopertais) wilayah II Jawa Barat dan Banten terus berupaya melakukan langkah-langkah antisifatif dan strategis, yaitu melalui berbagai program kegiatan dan pelatihan untuk pencapaian kualitas dan kuantitas di PTKIS, Luasnya area geografis Kopertais wilayah II Jawa Barat dan Banten membutuhkan personal, tenaga, biaya dan program khusus kunjungan ke seluruh PTKIS di wilayah II agar dapat terjangkau dalam waktu bersamaan secara berkala. Pada penelitian ini akan membuat sebuah system aplikasi android yang dapat digunakan untuk mendapatkan rute terdekat dan estimasi biaya perjalanan tugas dinas yang dapat diinputkan oleh Staff, kemudian estimasi biaya akan dihitung oleh Staff Keuangan dan akan dikonfirmasi oleh Pemimpin Keuangan secara web service, serta pencarian rute terdekatnya diimplementasikan dari algoritma dijkstra.

Kata Kunci : Rute terdekat, Estimasi Biaya Perjalanan, Algoritma *Dijkstra*, Android.



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