FOSS Software Development Projects under the USP-APDIP Microgrants Scheme

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Background

- partnership between the University of the South Pacific and APDIP / IOSN
- competitive grants scheme
- 20 grants provided for software development projects (each US\$ 900)
- projects need to release their software as Free/Open Source Software (FOSS)
- completely new development or enhancement
- may not require proprietary software to build or employ

- · Background
- · Submissions
- · POS System
- · TikiMaps
- · 2-dimensional flows
- · Fijian Spell-Checker
- · Micro-Payment system
- · On-line examination

Submissions

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- Develop a Point of Sale (POS) System for the retail environment in the Pacific Islands, by Avon-Solutions, Vanuatu
- 2. Development of TikiMaps inside TikiWiki.org Content Management System, by SOPAC
- 3. An adaptive mass conservative streamline tracking software for two-dimensional flows, by I. Hussein and Z. Li, USP
- 4. Fijian Spell Checker for OpenOffice, by W. Blanke and P. Geraghty, USP

Submissions cont.

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- 5. Development of a web based on-line examination system using a combination of free and open source software for a secondary school in Fiji Islands, by P. Narayan, USP.
- 6. Developing a Component-based NetPay Micro-payment System, S. Chandra, USP.

POS System

- objective POS system suitable for use in a retail environment in the Pacific Islands
- expected outcomes allow owner of small, family-run shops to better manage stocks and sales
- beneficiaries small businesses in a retail environment
- committee suggestions details provided were insufficient, proposal needs to be revised to include clearer objectives, methodologies and outcomes of the project

awarded awaiting return of signed contract

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TikiMaps

- objective develop new features for TikiMaps
- expected outcomes to be described
- beneficiaries to be described
- project description hire students to develop new features in TikiMaps – 2 objectives:
 - 1. make TikiMaps competitive with commercial packages
 - 2. local open source capacity building
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2-dimensional flows

- objective implement an adaptive, mass conservative streamline tracking software for 2-d flows
- expected outcomes FOSS implementation beneficiaries Fluid engineers
- project description implement FOSS based on a recent research result achieved by one team member, Dr. Zhenquan Li
- committee suggestions too narrow in its aim.
 Suitable as a strictly academically
 oriented research
- awarded awaiting return of signed contract

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Fijian Spell-Checker

- objective create OpenOffice spelling dictionary for Fijian
- expected outcomes strengthen the use of Fijian in print

beneficiaries

- newspapers, religious groups, governments, or educational institutions
- students learning Fijian
- the Fijian language

project description convert existing Fijian dictionary by committee suggestions also consider other spell checkers

awarded completed

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Micro-Payment system

- objective implement NetPay micro-payment system
- expected outcomes implementation of Broker and Vendor systems
- beneficiaries e-commerce in low-cost products & services
- project description provides component-based implementation of an off-line micro-payment model. Customers buy e-coins from broker, store them and pay by passing this information to vendor.

awarded signed contract received

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On-line examination

- objective create on-line examination system for Rishikul Sanatan College
- expected outcomes operational on-line examination system, increased involvement of staff and students in IT
- beneficiaries teachers, students, schools project description
- committee suggestions project must either build on existing FOSS e-learning software or provide compelling reason for not doing so

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