# THE POTENTIAL USE OF THE WEB FOR ON-LINE SEARCHING

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UCF 21-TR-98-015 June 1998

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#### **ABSTRACT**

This Technical Report evaluates the potential use of the UCF 21 Website for conducting on-line searches for student service information. A prototype structure for an On-Line Student Services Search (OSSS) was developed. Both a hierarchical structure and a keyword structure were considered. Because of the various interrelationships, it was determined that the keyword structure would be easier to implement and maintain. Appropriate keywords were developed for the 107 student services previously identified. Implementation of the prototype system was delayed because of software problems with the website host computer. Several alternative schemes for conducting the search are also discussed.

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## THE POTENTIAL USE OF THE WEB FOR ON-LINE SEARCHING

#### 1.0 INTRODUCTION

The University of Central Florida currently serves a diverse student body population of 28,000 students. Primarily a commuter campus, most of UCF's students live off-campus, or even farther away at one of the branch campuses such as Brevard and Daytona Beach. To bridge all of the students of UCF together and allow easy access to information about UCF regardless of the student's location, a UCF World Wide website has been established. This website serves to provide information about student services, various colleges, student records, registration and more. The use of the World Wide Web has proven a powerful way to connect students to needed information. Another way of harnessing the vast power of the World Wide Web is devising an on-line student service search (OSSS). With the aim of the UCF 21 project to improve student services, the creation and development of an on-line student search using the UCF 21 Website will serve to facilitate information exchange by giving students easier access to the specific student service(s) for which they are looking.

The University, as part of its Strategic Planning Initiative, has provided funding to support the University's Customer Focus for the 21st Century (UCF 21) project to address this need for a systems level study of student services. The primary goals of the UCF 21 project are to: 1) develop a systems level view of student services and their interactions by documenting all critical student service processes and their interrelationships; 2) identify systems level improvement opportunities, including re-engineering; 3) recommend changes and/or in-depth studies; and 4) develop implementation plans for changes and /or in-depth studies. The development of an on-line student services search on the UCF 21 Website will serve to supplement all four of these goals.

#### 2.0 OBJECTIVE

The UCF 21 Website serves as the virtual office of the UCF 21 project. From virtually any computer terminal throughout the world, the purpose, results and information available about the UCF 21 project is easily accessible. A website provides a virtual office that is available 24 hours a day, 7 days a week to answer questions, gather information and provide direction. The website is a non labor-intensive way for the UCF 21 project collect valuable information for use by UCF 21 systems and process analysts.

The on-line student service search is another possible facet for the UCF 21 Website. Students who are looking for a particular student service can access that section on the UCF 21 Website, and be given information about how to contact that service whether it be by website, phone or physical address. The on-line student search would serve to simplify the search procedure by providing an intuitive way for students to quickly and efficiently find the service for which they are looking.

#### 3.0 PURPOSE

Many students are frustrated when they look for a particular student service to help them and are sent from office to office, or some are not sure which office they are looking for and some do not know where to start. The UCF 21 on-line student search will aid the student in finding the service they are looking for by incorporating usability principles into the search process. By putting this search engine on the UCF 21 Website, students matriculating at other campuses or potential students who are not located in the Orlando area can seek out and find timely and accurate student service information without incurring the cost of a long-distance call. This would save money on the part of the student and labor hours for answering the phone on the part of University staff.

#### 4.0 PROTOTYPE INVENTORY

Technical Report UCF 21-TR-98-003 developed an inventory of 104 (later 107) student services available on the UCF campus. This report includes the name of the student service, a contact person and phone number, a physical address, and an e-mail and an URL if available. The on-line version of this report includes active hyperlinks to all of the indicated service providers. Although this report probably does not include all student services, it includes many important ones and will serve as a good foundation for constructing a prototype On-Line Student Services Search (OSSS).

#### 4.1 Design Specifications

Unlike the usual search engines that search an entire website or a collection of websites, the OSSS for the UCF 21 Website searches only one particular webpage. The design specifications require a search mechanism capable of searching the document for any particular student service when a user reads one of the UCF 21 reports posted on-line. Using the search form attribute in Microsoft *FrontPage*, the web development tool used to construct, develop and maintain the UCF 21 Website, an OSSS can be constructed.

#### 4.2 On-hand Prototype Inventory

The student services to be given as a search result of the OSSS are to come from the prototype inventory given in Technical Report UCF 21-TR-98-003.

#### 4.2.1 Top-Down Development

To further narrow the user's search, a collection of categories was proposed. The prototype student services from Technical Report UCF 21-TR-98-003 were organized into five categories: People, Paper, Money, Computer/World Wide Web and Facilities The results of this initial collection of categories is shown in Appendix A.

#### 4.2.1.1 Paper

This category includes those student services dealing with printed or electronic documents. Such services as transcript requests, the print shop, and the writing center.

#### 4.2.1.2 Money

This category relates to those student services requiring monetary transactions. This includes such services as third party billing, library fines, and short term loans.

#### 4.2.1.3 Computer/World Wide Web

This category relates to those student services requiring computer support and/or use of the web. This includes such services as computer services, information kiosks, and e-mail.

#### 4.2.1.4 Facilities

This category relates to those student services requiring the use of physical facilities on campus. This includes such services as the Arena, library facilities, and residence halls.

#### 4.2.1.5 People

This category is for when a student is looking for a service from another human. For example, when a student seeks out Victim Services, this student service usually constitutes the use of a service physically provided by a human. Because so many of the student services fell under this category, it was decided that more defined categories would need to be devised before constructing the prototype for a top-down search.

#### 4.2.2 Keyword Association

As with other on-line search engines used on the Web, keywords can be used to narrow down a user's search. A keyword is a word that describes something that the user is looking for. For example, if a user is searching for a student service to help her get a job, she could type in the keywords: career, jobs and the returned result of the search could be the Career Resource Center. She would then be provided with the contact information for the Career Resource Center. If this was not the particular student service the user was looking for, she can either do another search using different keywords, or add keywords to the ones she has already entered.

#### 4.3 Beta Test

Rather than conduct a top-down search, it was decided that a keyword search would be easier to construct and maintain.

#### 4.3.1 Initial Construction

Because all of the reports on the UCF 21 Website that can be viewed on-line are in PDF (Adobe's Portable Document Format), utilizing Microsoft Front Page's search engine within a PDF document is not possible. Through the use of Adobe's Acrobat Reader, a user can search through the PDF document using the search function within the viewing window to look for desired student services. Another added feature to Acrobat Reader is the ability for the user to click on a given link within the PDF document and the user will immediately be taken to that particular website. Activation of these links requires programming by the webmaster or other authorized agent using Adobe Acrobat. Acrobat Reader is a free software

package that reads files created with Adobe Acrobat. A link for download of this free software package is included in the UCF 21 Website. An example of this page is shown in Appendix B.

#### 4.3.2 Options for On-Line Student Service Search

Because of the design specifications, a keyword search using a Microsoft FrontPage search form is not possible in a PDF document. However, it was thought possible to search the UCF 21 webpage containing all the reports since that page is coded in HTML. Upon execution of this search form, it was discovered that due to a problem with the configuration of the IEMS server (the server upon which the UCF 21 Website resides) a search form did not appear when the webpage came up using Netscape or Internet Explorer. A consultation with Microsoft corroborated the problem residing with the IEMS server, and action has been taken to rectify the situation.

A possible way around this complication is the development of a searchable database. As discussed in Technical Report UCF 21-TR-98-014, Microsoft *FrontPage* has a Database Wizard with which a searchable database can be constructed. It is theorized that this database, in connection with information gathered via forms software (further explained in Technical Report UCF 21-TR-98-014) will serve as a valuable repository of information that UCF students can rely upon for timely and in-depth information about the particular student service they are in need of. Users can query this database for various student services or keywords relating to those student services and have the necessary information returned to them. Using the keyword information given in Appendix C, a searchable database can be constructed in order to test this search option. Association of student services with keywords can only be done if the index server problem is resolved and/or a UCF 21 database is set up for students to query.

Another option is the submission of key words culled from the prototype student service inventory to the Infoseek search engine UCF is using on their main page. Please note that the IEMS department, which formerly had a Microsoft *FrontPage* search form on the main page, has now linked to the Infoseek search engine on the UCF main page.

#### 5.0 OTHER POTENTIAL USES FOR THE WEB

#### **5.1 Electronic Commerce**

An area that is rapidly growing and responsible for an explosion of use of the web is that of electronic commerce. By utilizing secure web pages (indexed with a https:// instead of http://), users could purchase books for classes, concert tickets, pay parking fines and outstanding tuition, and make various other transactions that would eliminate standing in line. Electronic commerce could also provide a convenient way for those students who are matriculating at satellite campuses a way to purchase and/or pay needed supplies and fees without leaving their residences.

#### 5.1.1 Payment of Fees

Before the payment of fees (e.g., tuition, health fee, parking fines) over the Web can be attempted, there needs to be a mechanism for tying all of these computer systems together.

#### 5.2 Inspection of Various Processes

Another use for the Web is for the inspection of certain processes that students have to go through. An example of this is how students often call about the status of admission/readmission and financial aid. Rather than call on the phone to ask about their admission status or if their student loan has been disbursed, students could get on the Web to find out this information. Currently, UCF does have available the Polaris web page (polaris.ucf.edu) for students to check the status of their financial aid, but it does not give such information as if a check has been placed on hold, or if certain financial aid has been truly disbursed. The Student Accounts section and the Financial Aid section of the Polaris website do not immediately communicate with each other. In other words, if the Financial Aid page says that a Stafford Loan was disbursed, it may not be readily shown when one inspects the Student Accounts page.

In the area of Admissions, students can find out if their application has been received, what step in the admission process they are currently in, and find out immediately if there are any needed documents missing from their application. They could also find out if they have been admitted to the University before a formal letter is sent.

#### 5.3 Virtual Classroom

The web can also serve as a Virtual Classroom for the University. Classes can be broadcast over the Web and students can visit the site and download video clips of pertinent portions of that lecture. This could also serve as a more reliable method of deliver than via videotape (which can break). At the moment, video footage on the web is very space-consuming, but as technology evolves, this problem should be alleviated. In addition, class notes with links to pertinent websites could also be provided.

#### 6.0 CONCLUSION

The further development and implementation of an on-line student service search (OSSS) can greatly enhance student services on campus by providing students with an easily-accessible way to contact the services that they need. In addition, non-students can easily examine what student services UCF has to offer and how it compares to other universities. An OSSS placed on the UCF 21 Website can serve as a low-cost way to inform students regardless of time of day, time zone or distance from the University.

#### **APPENDIX A**

# **Top-Down Configuration of Student Services** for On-Line Student Service Search (OSSS)

Student Opportune process and the process of the pr	PEOPLE	PAPER	MONEY	COMPUTER/WWW	FACILITIES	MISC
Analitary Multiculural Services Transcript Requests Collegions Context Affairs Peris Sport Conductor Addition Services Company of Facilities and Annua Services Company of Facilities and Annua Services Conductor Addition Services Under Employment Calendar Affairs Context for Princiscus Information Informat	_					
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College Work Study Ombuds Office Orientation Office Victim Services Orientation Office Victim Services International Student Services International Services Internati			Automatic Teller Stand			
Orientation Office           Viction Services                     International Student Services                     Academic Development and Retention                     On-Carapius Recruitment                     On-Carapius Recruitment                     Continuing Education                     Polico Department                     Dispute Resolution Services                     Quality Initiatives                     Coupletailly Education                     Student Cabries                     Arciutation and Carminum (Cabries)                     Student Cabries                     Processor						
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Dispute Resolution Services						
Quality Initiatives						
Cooperative Education						
Counseling and Testing Center						
Recreational Services						
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Special Programs (Student Outreach)						
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	Weekend Student Services					

## **APPENDIX B**

## **UCF 21 Webpage Containing PDF Files of Technical Reports**

### **APPENDIX C**

**Listing of Keywords for Database Search of Student Services** 

STUDENT SERVICE	KEYWORDS
	advising, course planning, course
Academic Advisement Services	counseling, tutoring
	g, tartering
	university holidays, academic year,
Academic Calendar	school calendar, spring break
Academic Clubs	clubs, academics
Academic Development and Retention	counseling
Academic Exploration Program	academic exploration program
- roadonno - Apronadon i rogitam	athletes, collegiate sports,
Academic Services for Student Athletes	academics, tutoring
, todaotino del tropo for diadetti, tamento	ID, identification, driver's license,
All-Campus Card	badge, library card, meal card
7 iii Campac Cara	graduates, alumna, alumnae,
	alumnus, alumni, foundation, alma
Alumni Association	mater
Amateur Radio Club	radio
Minateur Naulo Olub	local, remote, locations, off campus,
Area Campuses	satellite, branch
Area Campuses	Satellite, Dranch
	events, sports, concerts, speeches,
Arena	
	event space, event planning
Articulation and Community College	branch campuses, community
Relations	college transfer
Athletic Events	sports, football, schedule, baseball
	bank, ATM, cash, money, 24 hour
Automatic Teller Stand	banking
Bike Storage	bikes, pedalcycles
Bookstore	books, classes
Business Services	business
Career Resource Center	resume, jobs, placement, work
	professional development, career
Center for Professional Development	advisement
	check cashing, money, hard
Check Cashing	currency
	student accounts, cashier,
Collections	payments, debts, legal action
	student employment, financial aid,
College Work-Study	jobs
Commons	eateries, commons
	computer accounts, passwords,
Computer Facilities and Services	computers
	continuing education, short courses,
	non-matriculation, non-traditional
Continuing Education	student
Cooperative Education	high school, work experience
	·
	life counseling, counseling, testing,
Counseling and Testing Center	SAT, LSAT, MCAT, GRE, GMAT
	child care, child development,
Creative School for Children	student
C.CGGIVO CONCOTTOT OFFICIATOR	otadont

STUDENT SERVICE	KEYWORDS
Credit Union	savings, loans, ATM
Dispute Resolution Services	complaint, legal action, dispute
	distributed learning, branch
	campus, education, distance
Distributed Learning	learning
Diversity Initiatives	diversity, initiatives
Dual Enrollment	double major, dual enrollment
Early Admissions	early admission, early decision
Early Childhood Center	child care, young children
E-mail (electronic mail, computers, Internet	orma dare, yearig ermaren
access	e-mail, internet, computers
English for Speakers of Other Languages	e maii, internet, computers
(ESOL)	english help, language
(1501)	evening student, non-traditional
Evening Student Services	student
Faculty Center for Teaching and Learning Fee Appeals/Waiver/Refunds	faculty, resources
ree Appeais/Waivei/Refunds	fee waiver, refund, appeals
	FEEDS, distributed learning,
FFFDO	distance learning, engineering,
FEEDS	videotape, library
First Year Advising and Information	freshman advising, information,
Services	resources
Food Services	food, catering, meal plans
	graduate office, graduate affairs,
Graduate Admissions	graduate studies
	greek, fraternities, sororities, IFC,
Greek Affairs	NPHC, greek system, rush
Holds	records, register, clearing holds
Honor Societies	organizations, greek,
	honors, accelerated studies, intense
Honors Program	study
	housing, dormitories, dorms,
	apartments, apartment referrals,
	housing information, dormitory
Housing and Residence Life	activities
-	kiosk's, unofficial transcripts,
	financial aid, personal information,
Information Services (KIOSK's)	PIN
,	audio-visual, instructional
Instructional Resources	resources, teaching resources
	international students, foreign
International Student Services	students, resources
	employment, jobs, professional
Job Placement	employment
LEAD Scholars Program	
Leadership Development	leadership, leaders
Locationip Dovolopinoni	elders, learning institute, community
Learning Institute for Elders at UCF, Inc.	service
Leaning monute for cluers at OCF, Inc.	SCI VICE

STUDENT SERVICE	KEYWORDS		
	legal, parking fines, moving		
	violations, divorce, landlord dispute,		
Legal Services	tenant's rights		
	library, luis, resources, books, study		
Library Facilities	rooms, computers		
Library Fines	library, overdue books, fines		
	·		
	bible, church, synagogue, mosque,		
Ministries	temple, study, social gatherings		
Multicultural Student Services	multicultural, diversity		
Quality Initiatives	improvement, long-range plan		
Recreational Services	sports, activities, event planning		
	transcripts, residency, graduation,		
Registrar's Office	proof of registration		
Registration	courses, courseload, registration		
Rehearsal Hall			
	student housing, on-campus		
Residence Halls	housing		
	program of study, prerequisites,		
SASS Audit	degree requirements		
	money, financial aid, emergency		
Short Term Loans	loans		
	small business, development,		
Small Business Development Center	resources		
	student outreach programs, pre-		
	college programs, community		
Special Programs (Student Outreach)	service		
Student Academic Resource Center	tutoring, help, academic resources		
Student Accounts	cashier, payment, late fees, fees		
Student Activities	activities, students, social events		
	student activities, facilities, events		
Student Activities Center	planning		
	physically challenged, americans		
	with disabilities act, handicaped		
Student Disability Services	facilities		
Student Employment	jobs, work, part time		
	fellowships, assistantships, loans,		
Student Financial Assistance	aid, scholarships		
Student Government	government, student, budget,		
	doctor, medication, pharmacy,		
	women's health, referral,		
Student Health Services	immunization		
Student Organizations	student societies, clubs		
Student Resource Center	resources, student		
Student Union	facilities, events planning		
Telephones	telecommunications		
	third party billing, fellowships,		
Third Party Billing	scholarships, grants		

STUDENT SERVICE	KEYWORDS	
Transcript Requests	registrar, transcripts	
Transportation		
Tuition Receipts	cashier	
Undergraduate Admissions	admissions	
Veteran Affairs	VA, veterans	
Victim Services	police, victim's advocate	
Volunteer Services/Service Learning		
Opportunities	community service, volunteer	
	non-traditional student, weekend	
Weekend Student Services	classes	
Writing Center	writing, tutoring, English	
	postal service, campus mail,	
ZIP + 4 (Postal Service)	outbound mail	