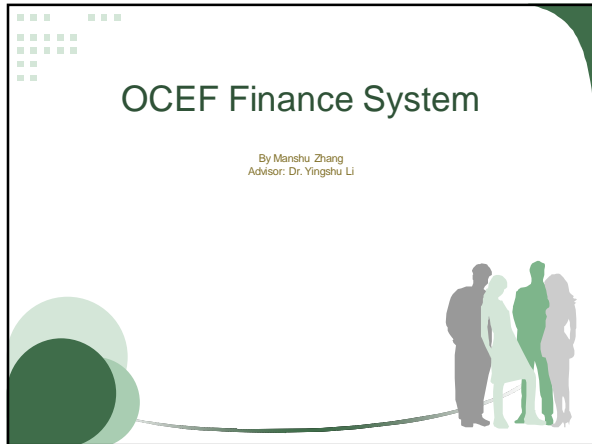


# OCEF Finance System

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## Index

- “ Background Introduction
- “ System Requirements
- “ System Design and Implementation
  - . Database
  - . Examine Service
- “ Future Work

## About OCEF

- “ Overseas China Education Foundation(OCEF) registered in Texas in April, 2001. Its mission is to raise fund to support education, especially to help the disadvantaged children in the vast rural areas of China obtain basic education.
- “ Main features of OCEF
  - . Independent
  - . All-volunteer driven
  - . Guaranteed delivery
  - . Low operational cost

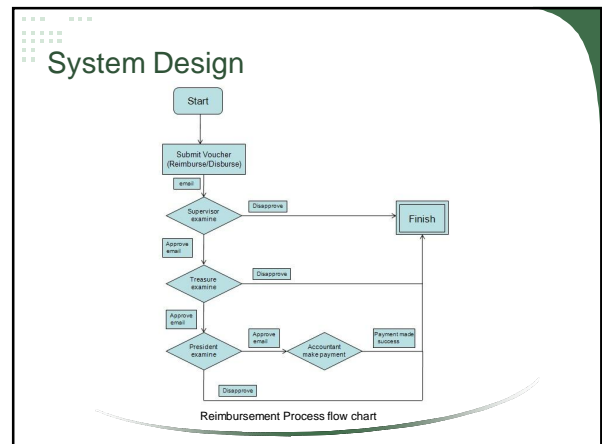


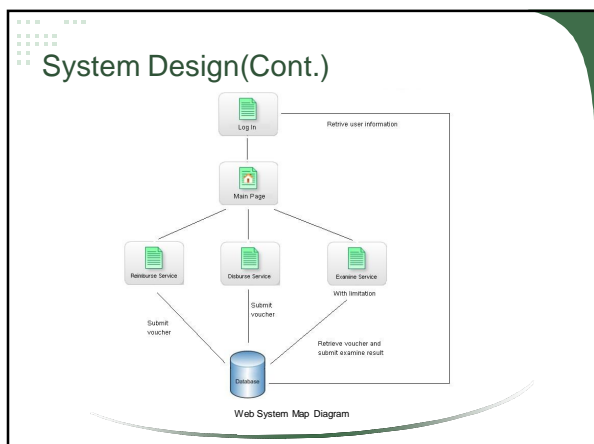
## OCEF Finance System

- “ Responsible for the expense of OCEF
- “ Problems of traditional reimburse and disburse system
  - . Low efficient examine process
  - . Complex documents management

## Functional Requirements

- “ Submit voucher online
  - . Reimburse and Disburse
- “ Examine online
  - . Check voucher and submit examine result
- “ Security
  - . president, supervisor, treasury, accountant





### Development

- Environment
  - Local: Windows XP, Net beans IDE, Mysql, Apache
  - Remote: SSH, OCEF server, LINUX, Mysql
- Technology
  - WebPages: HTML, PHP, JavaScript, SQL
  - Database: SQL

### Responsibility

- Database
  - Store user information, voucher, etc
  - Interaction with WebPages
- Examine Service
  - For limited users
  - View and examine online

### Database Design

- User account
  - Username, password, email

username	password	permission	email
varchar(20)	varchar(20)	varchar(20)	varchar(20)
- Examine Status
  - 4 times examine for each voucher, 3 type of status
  - Pending, approved, disapproved

id	statusP	status	statusT	statusK
int(10)	varchar(10)	varchar(10)	varchar(10)	varchar(10)
- Voucher

### Database Design(cont.)

- Voucher
  - General Information
  - Payee Info
  - Expense Description
  - Expense Info

### Database Design(cont.)

- Voucher
  - General Information
  - Payee Info
  - Expense Description
- Expense Info
 

id	date	type	des	amount	numOfRec
INTEGER	INTEGER	VAR	INTEGER	VAR	INTEGER

### Database Design(cont.)

Vid	Rdate	Rfname	Rlname	Rcontact	Pfname	Plname	Ptitle	Pid	Pgroup	Paddress	Pcell	Pemail	Paccount	Pbank	Activity	Adates	ReclMG	Total	Currency	PDF
int(50)	date	varchar(20)	varchar(20)	varchar(30)	varchar(30)	varchar(30)	int(4)	varchar(30)	varchar(20)	varchar(120)	varchar(30)	varchar(30)	varchar(30)	varchar(40)	varchar(40)	varchar(2)	varchar(2)	varchar(15)	varchar(15)	varchar(15)

ReimExpense						
Vid	Vid	Date	Type	Des	Amount	NumOfRec
INTEGER	INTEGER	VAR	INTEGER	VAR	INTEGER	INTEGER

Status				
Vid	StatusP	StatusS	StatusT	StatusA
int(10)	varchar(10)	varchar(10)	varchar(10)	varchar(10)

users			
username	password	permission	email
varchar(20)	varchar(20)	varchar(20)	varchar(20)

### Implementation

“ Creation

- Run SQL in Mysql

```
CREATE TABLE `users` (
  `username` varchar(30) NOT NULL,
  `password` varchar(30) NOT NULL,
  `permission` varchar(30) NOT NULL,
  `email` varchar(30) NOT NULL,
  PRIMARY KEY (`username`)
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```

“ Operation

- Submit
- Retrieve

### Implement DB Operation

“ Submit

- Collect data from WebPages by using PHP function or session

```
Suserid=$_POST["user_name"];
SrFname = $_SESSION["rFname"];
```

- Connect database and run SQL Insert queries

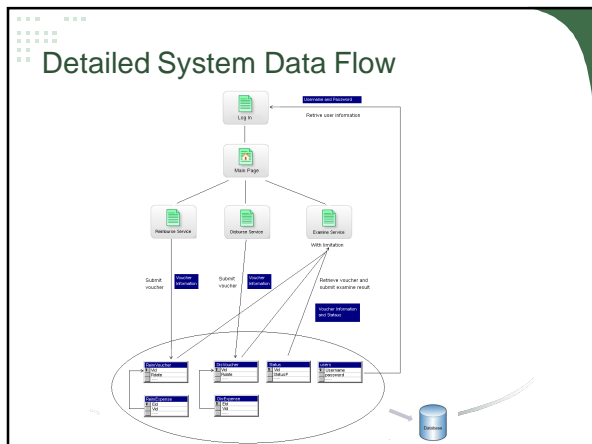
```
mysql_connect("localhost", "root", "root") OR DIE ("Sorry!,mysql_error()");
mysql_select_db("test") OR DIE ("Unable to select db",mysql_error());
$sql = "INSERT INTO ReimVoucher
(Rdate,Rfname,Rlname,Rcontact,Pfname,Plname,Ptitle,Pid,Pgroup,
Paddress,Ptel,Pcell,Pemail,Paccount,Pbank,Activity,Adates,ReclMG,Total,Currency)
VALUES
(($Rdate),($SrFname),($SrLname),($Scontact),($SpayeeFName),($SpayeeLName),
($SpayeeTP),($SpayeeK),($Sgroup),($Saddress),($Stel),($Scell),($Semail),
($SaccountNo),($SbankInfo),($Sactivity),($Sdates),($Sfile_name),($Stotal),($SCurrency));";
mysql_query($sql);
```

### Implement DB Operation(cont.)

“ Retrieve

- Collect data from WebPages by using PHP function or session
- Connect database and run SQL select queries
- Handle results

```
echo "<table cellpadding='0' cellspacing='0' border='1'>";
$result=mysql_query($sql);
while($row = mysql_fetch_array($result))
{
    if($permission!="user")
    {
        ( echo "%<td align='left'>.$row[Rdate]";</td>
        <td align='center'>
        <a href="http://www.oc-ef.org/apps/HRdev/Manshu/detail.php?vid={$row[Vid]}";</a></td>
        <td align="center">.$row[Rfname];</td>
        <td align="center">.$row[Rlname];</td>
        <td align="center">.$row[statusP];</td>
        <td align="center">.$row[statusS];</td>
        <td align="center">.$row[statusT];</td>
        <td align="center">.$row[statusA];</td>
        <td align="center">.$row[total];</td>
        <td align="center">.$row[reclmg];</td>
        <td align="center">.$row[total];</td>
        <td align="center">.$row[currency];</td>
        <td align="center">.$row[pdf];</td>
    }
}
```



### Examine Service Design

“ View vouchers and status

- Retrieve voucher and status
- Display together

“ Submit examine results

- Edit status with limitation
- Submit status

### Examine Service Implementation

- Table with hyperlink

Date	Voucher ID	First Name	Last Name	statusP	statusS	statusT	statusA	Examine
09/09/09	<a href="#">92</a>	John	Bank	pending	pending	pending	approved	Examine

- Table with droplist

Date	Voucher ID	First Name	Last Name	statusP	statusS	statusT	statusA
09/09/09	<a href="#">92</a>	John	Bank	pending	pending	pending	pending

### Demonstration

- [Examine Service](#)
- Database

### Future work

- Complete disbursement service
- Maintain user information
- Periodical report

### Q & A?