



Attendance Monitoring System

For the Faculty of Information
and Computer Studies of the
University of Santo Tomas



Attendance Monitoring System

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Reason for choice of study

University of Santo Tomas
Faculty of Engineering
Department of Information Technology

WEEKLY ATTENDANCE SHEET
Week { _____ }

Kindly affix your signature opposite your name using the following codes:

P – Present
T{} – Tardy (in minutes, placed inside {})
A – Absent
OF – Official Function/Representation
SL – Sick Leave
U{} – Undertime (in minutes, placed inside {})

	Faculty Member	(Mon)	(Tue)	(Wed)	(Thu)	(Fri)	(Sat)	Remarks
1	Balais, M.							
2	Baribar, A.							
3	Caramancion, K.							
4	Del Rosario, JRN							
5	Domingo, M.							
6	Lacsamana, B.							
7	Ullamas, J.							
8	Lopez, R.							
9	Padua, J.							
10	Ponay, R.							
11	Ramirez, E.							
12	Sanchez, SA							
13	Santos, AM							
14	Victorio, M							

Note: This form will be collected at the end of the week. Notify the undersigned for reasons of non-signing.
Verified by: _____

Chair
Department of Information Technology



Reason for choice of study

- To Automate the current attendance system
- The faculty uses a logbook, which is susceptible to physical damage, record loss, inaccurate timestamp and record mismatch.
- This study will help the department to systematize and manage records of the faculty members with efficiency.



Reason for choice of study

- Attendance will be easily monitored
- Reports will be simply be generated
- Will give a lesser workload for the professors and staffs
- Therefore giving more time to other important matters in the university.



Target beneficiaries

- The chair persons of the ICS Department
- Indirect beneficiaries would be the UST Accounting department which handles the payroll system
- Partly the UST administration which handles the University professors.

System Components

- Biometric Scanner (Digital Persona U.are.U 4500)



- MySQL Database
- Basic Personal Computer Components



Technical Specifications

- Java Runtime Environment(JRE)
- MySQL Database
- Fingerprint Scanner is connected
- MySQL Database is connected
- Internet Connections
- Adobe Reader

UST RFID vs Fingerprint Scanner

UST RFID	Fingerprint Scanner
<ul style="list-style-type: none">• No cost• Need to integrate with StEps (Santo Tomas E-Service Providers)• They need to secure the University's data thus a need for more authorization	<ul style="list-style-type: none">• Costly• Provide a unique and secured type of identification• More autonomy on the developers



Fingerprint Scanner

- Fingerprints are a unique marker for a person, even an identical twin.
- A fingerprint scanner's job is to take the place of a human analyst by collecting a print sample and comparing it to other samples on record.



Fingerprint Scanner

- Optical scanning
 - Photosites, Array of light-sensitive diodes
 - Each photosite records a pixel, a tiny dot representing the light that hit that spot.
- Capacitance Scanning
 - Containing an array of tiny cells.
 - Use electrical current



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Data Flow Diagram

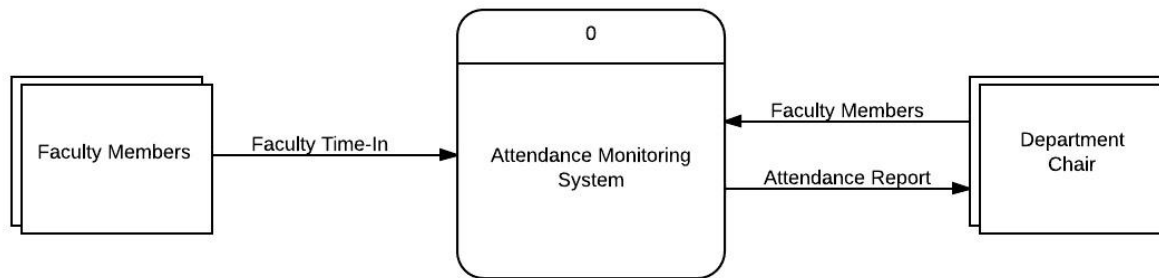
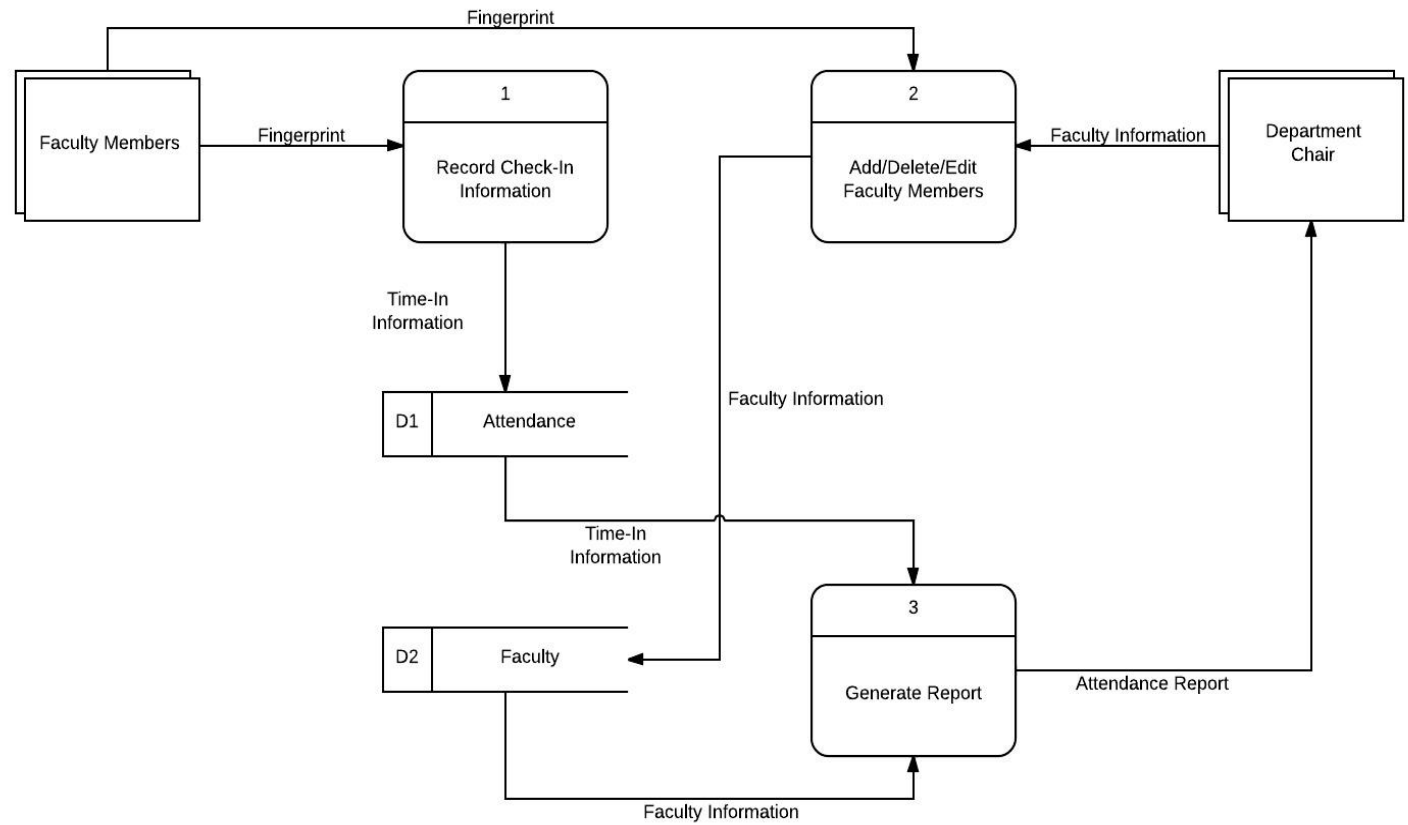
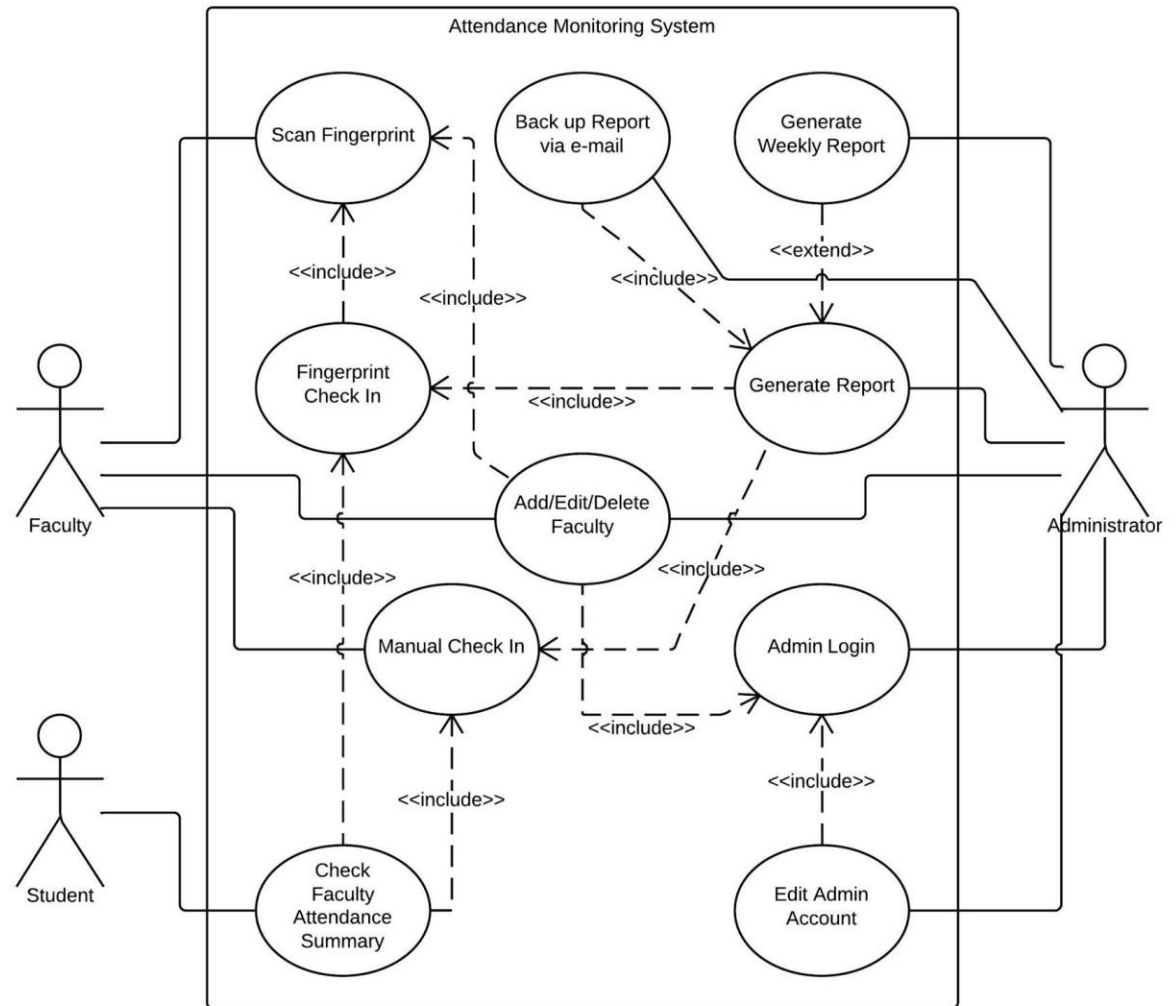


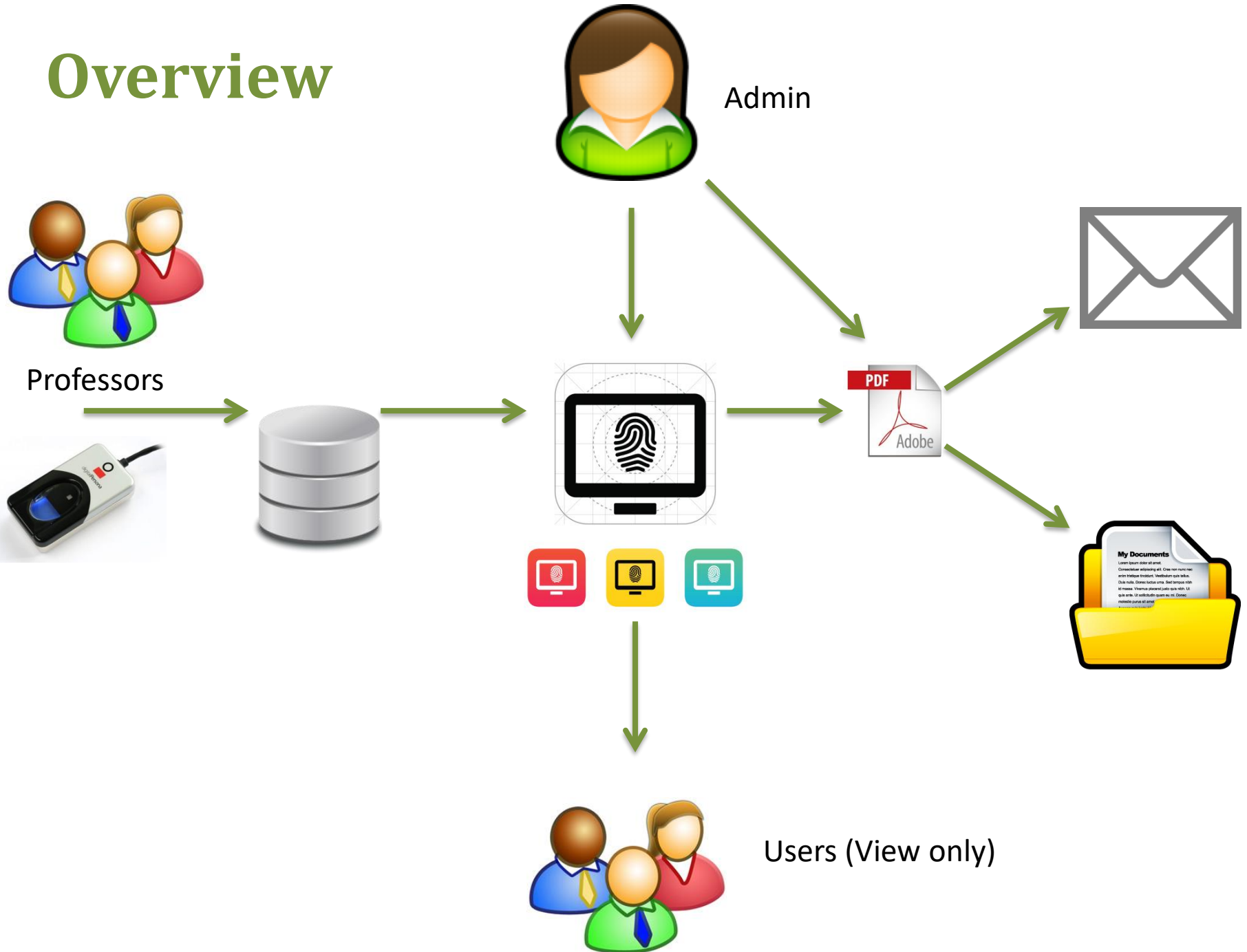
Diagram 0



Use Case Diagram



Overview





System Features

- Software Graphical User Interface for viewing.
 - Home Page (view only)
 - Professors Page (view only)
- Graphical User Interface for the Administrator
 - Dashboard
 - Professors
 - Edit Account
- Generate Weekly Attendance Report
- Manual Attendance Page



System Features

- Fingerprint Log-in
- Add/Change/Delete of Faculty Member to the System
- Faculty Daily Time-in Logs
- File Back-up through E-mail