

PPA Membership Maintenance System

Sprint Report 3
Capstone Computing Project 2
Group SD07
Semester 2, 2018

Curtin University – Department of Computing

Assignment Cover Sheet / Declaration of Originality

Complete this form if/as directed by your unit coordinator, lecturer or the assignment specification.

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1. Introduction

1.1 Group Introduction

All the members in our group have successfully completed the CCP1 in 2017. We enrolled for the CCP2 module in 2018 2nd semester, therefore this project is started in semester 2 of this year (2018). Because of that we have to do the main documentations and tasks of the project such as SRS, task allocation, initial requirement gathering etc. in semester 2. Each of the group members has to do a workload of 2 semesters within this semester, in order to complete the project successfully.

1.2 Project Introduction

PPA Membership Maintenance System is going to be used for membership management and some other important administration tasks such as event planning, donation collecting, accounts handling etc. of past pupil association of Sirimavo Bandaranaike Vidyalaya. Currently all these operations are manually performed by the committee. The main intention of the system is to automate most of those tasks and perform the semi-automated tasks easily and conveniently.

We use MEAN stack to develop this application, JIRA as the project management tool and bitbucket as the online repository. The application has main 4 parts as Membership Services, Accountings, Event Planning and Reporting. These four sections are interconnected with each other as per their functionalities.

2. Progress Update

Sprint 2: 1st September – 14th September

2.1 Allocated Tasks for the Sprint 3

#	Task ID	Task	Task Status	Hours Estimated
1	PPA-	Detailed Account Page Designing	Completed	1
2	PPA-	Detailed Account Page Implementation	Completed	4
3	PPA-	Detailed Account Page - Database Design	Completed	1
4	PPA-	Detailed Account Page - Insert Method Calls	Completed	2
5	PPA-	Detailed Account Page Update Method Calls	Completed	2
6	PPA-	Detailed Account Page Delete Method Calls	Completed	2
7	PPA-	Detailed Account Page Validation Methods	Completed	2
8	PPA-	Detailed Account Page Transaction Table Insert Methods	Completed	2
9	PPA-	Detailed Account Page Transaction Table Update Methods	Completed	2
10	PPA-	Detailed Account Page Transaction Table Delete Methods	Completed	2
11	PPA-	Sprint 4 Planning	Completed	1
12	PPA-	Discuss design issues Sprint 3	Completed	1
Total Hours				22

2.2 Planned Tasks for the Sprint 4

#	Task ID	Task	Estimation (Hours)
1	PPA-	Detailed Account Page Transaction Table Search Methods	1
2	PPA-	Account Report Page GUI Designing	2
3	PPA-	Account Report Page GUI Implementation	3
4	PPA-	Account Report Page GUI Report Generation Algorithm	4
5	PPA-	Detailed Account Page Search & Filtering Method Calls	4
6	PPA-	Research about report generation	4
7	PPA-	Service Letter Generation GUI Designing & Implementation	3
8	PPA-	Service letter generation Report Designing	2
9	PPA-	Sprint 5 Planning	1
10	PPA-	Discuss design issues Sprint 4	1
Total Hours			25

2.3 Difficulties

3. Task Break Down

3.1 Detailed Account Page Designing

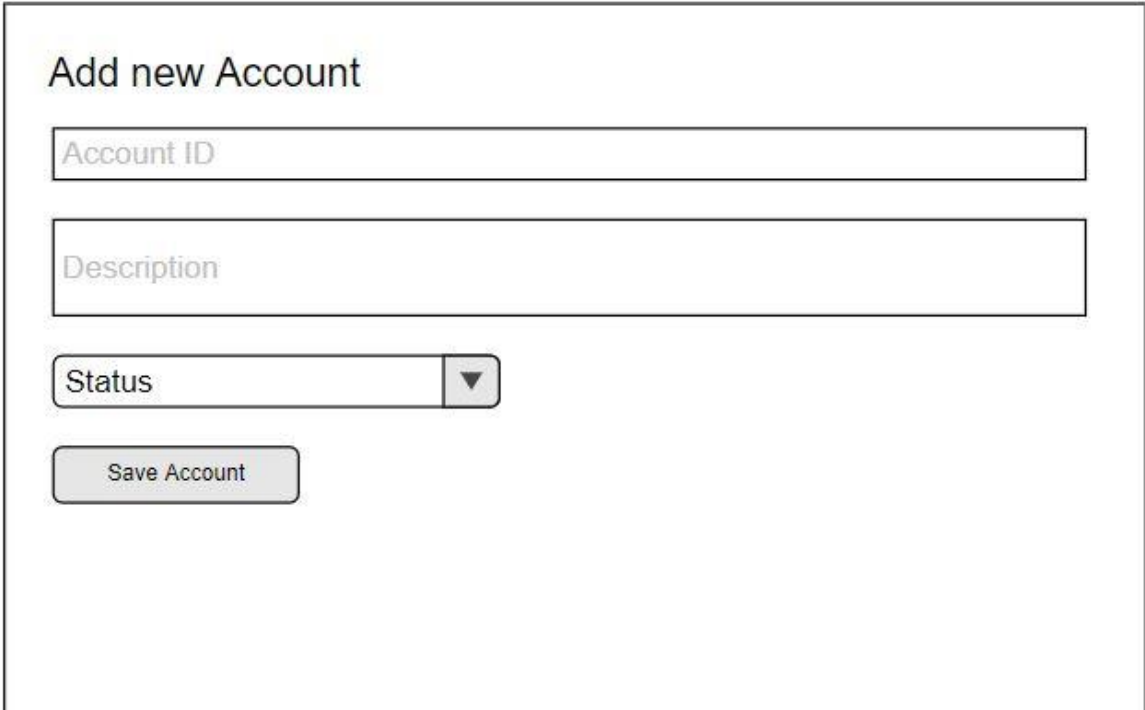
Estimate Time: 1 Hours

Actual Time: 1 Hours

Actual Time (this sprint): 1 Hours

Description

From this task I designed the pages needed in accounts for this sprint.



Add new Account

Account ID

Description

Status ▼

Save Account

This window will be used to update as well

Accounts

Create New

▼ Head 1	▼ Head 2	▼ Head 3
Cell 1	Cell 2	<div>EditView EntriesAdd entryDelete</div>
Cell 4	Cell 5	<div>EditView EntriesAdd entryDelete</div>
Cell 7	Cell 8	<div>EditView EntriesAdd entryDelete</div>
Cell 10	Cell 11	<div>EditView EntriesAdd entryDelete</div>

Items per page 15 | < >

View All accounts

Add new Transaction

Account ID

Amount

Description

Donation▼

Save Transaction

This window will be used to update as well

Transactions

Create New

▼ Head 1	▼ Head 2	▼ Head 3		
Cell 1	Cell 2	Cell 3	Edit	Delete
Cell 4	Cell 5	Cell 6	Edit	Delete
Cell 7	Cell 8	Cell 9	Edit	Delete
Cell 10	Cell 11	Cell 12	Edit	Delete

Items per page 15 | < >

View all transactions

Commit ID: [7fdf234](#) account design

3.2 Task 2 Detailed Account Page Implementation

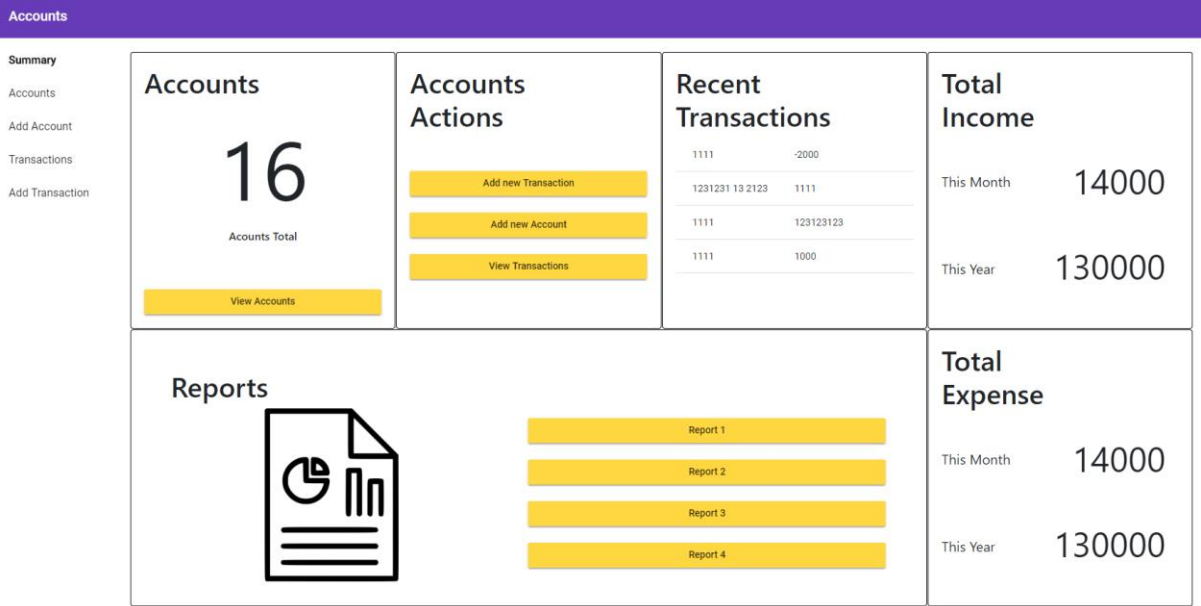
Estimate Time: 4 Hours

Actual Time: 5 Hours

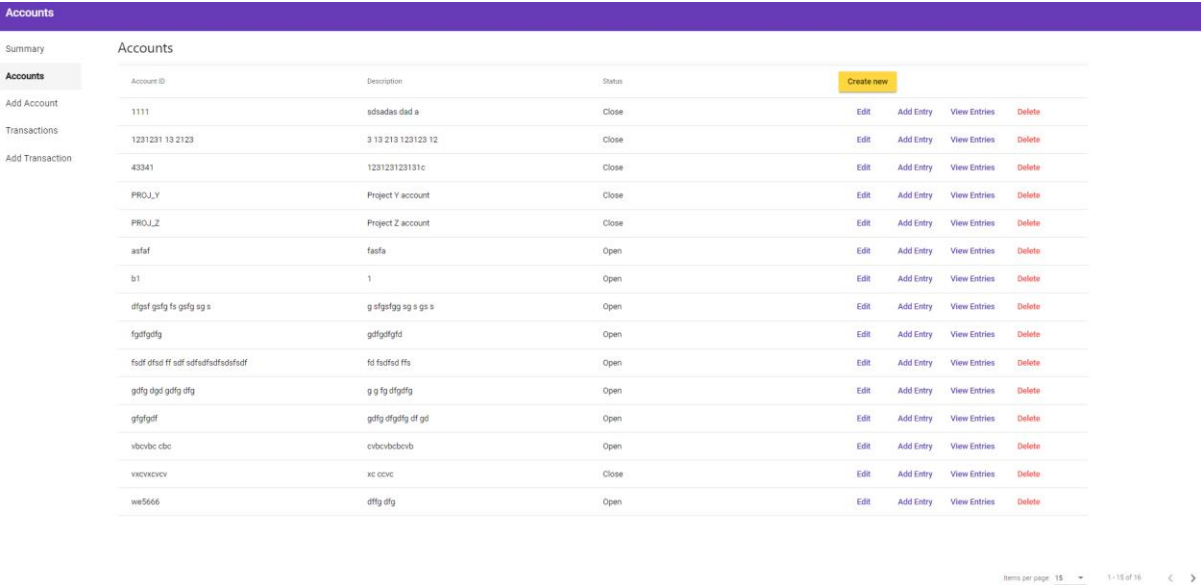
Actual Time (this sprint): 5 Hours

Description

From this task I designed the GUIs of needed pages. I also completed incomplete GUIs that was unfinished in previous sprint (dashboard and view accounts GUIs).



Dashboard



Accounts page

Accounts

Summary

Accounts

Add Account

Transactions

Add Transaction

Add new Account

Account ID

Description

Status

Save Account

Add new Account page

Accounts							
Summary	Transactions						
Accounts							
Add Account	Account ID	Amount	Description	Entered by	Date	Donation	Create new
Transactions	1111	-2000	qweweq	USER	2018-09-14T07:02:28.025Z	No	Edit Delete
Add Transaction	1231231 13 2123	1111	qweweqwe	USER	2018-09-14T06:56:34.999Z	No	Edit Delete
	1111	123123123	323123 1 223	USER	2018-09-14T06:24:37.773Z	Yes	Edit Delete
	1111	1000	bh	USER	2018-09-14T06:22:18.838Z	Yes	Edit Delete

Transactions Page

Accounts	
Summary	
Accounts	
Add Account	
Transactions	
Add Transaction	

Add new Transaction

Account ID

Amount

Description

Donation

Save Transaction

Add new Transaction page

Commit IDs:

- f38bd25
- 9878303
- 2bb2467

3.3 Task 3 Detailed Account Page - Database Design

Estimate Time: 1 Hours

Actual Time: 1 Hours

Actual Time (this sprint): 1 Hours

Description

By this task I designed the database that need to store accounts and transactions, this involved finding needed attributes to correctly store relevant data.

For Account

- Account ID
- Description
- Status (Open, Close)

```

account.model.js x
1  var mongoose = require('../dbConfig');
2
3  const AccountSchema = mongoose.Schema({
4    accId: { type: String, required: true, unique: true, index: { unique: true } },
5    desc: { type: String, required: true},
6    status: {type: String, required: true}
7  });
8
9  module.exports = mongoose.model('Account', AccountSchema);
10

```

Model created for Accounts in mongoDB

For Transaction

- ID
- Amount
- Description
- Donation (Yes, No)
- Entered By
- Entered date

```

transaction.model.js x
1  var mongoose = require('../dbConfig');
2
3  const TransactionSchema = mongoose.Schema({
4    accId: { type: String, required: true },
5    amount: { type: Number, required: true},
6    desc: { type: String, required: false},
7    donation: { type: String, default: 'false' },
8    entered: { type: String, default: 'SYSTEM' },
9    date: { type: Date, default: Date.now }
10  });
11
12  module.exports = mongoose.model('Transaction', TransactionSchema);
13

```

Model created for Transactions in mongoDB

Commit IDs:

- 9a010c7

3.4 Task 4 Detailed Account Page - Insert Method Calls

Estimate Time:

2 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

From this task I have Implemented the front end and middle tier code to insert data.

```
onSaveAccount(formDirective: FormGroupDirective) {
  if (this.form.invalid) {
    return;
  }
  if (this.mode === 'new') {
    this.accountService.addAccount(this.form.value.accId, this.form.value.desc, this.form.value.status).subscribe((accountData: any) => {
      this.openSnackBar(accountData.message, null);
    });
    formDirective.resetForm();
    this.form.reset();
  } else {
    this.accountService.updateAccount(this.accountId, this.form.value.desc, this.form.value.status)
      .subscribe((accountData: any) => {
        this.openSnackBar(accountData.message, null);
      });
  }
}

openSnackBar(message: string, action?: string) {
  this.snackBar.open(message, action ? 'Action Label' : 'Hide', null);
}
```

```
var express = require("express");
var router = express.Router();
const AccountSchema = require("../account.model");
const TransactionSchema = require("../transaction/transaction.model");

router.post("/", (req, res, next) => {
  console.log(req.body);
  const account = new AccountSchema({
    accId: req.body.accId,
    desc: req.body.desc,
    status: req.body.status
  });
  account.save().then(createdAccount => {
    res.status(201).json({
      message: "Account added successfully",
      accountObj: {
        ...createdAccount,
        id: createdAccount._id
      }
    });
  });
});
```

```

5 addAccount(accId: string, desc: string, status: string) {
6     // const accountData = new FormData();
7     // accountData.append('accId', accId);
8     // accountData.append('desc', desc);
9     // accountData.append('status', status);
10
11     const accountData = {
12         'accId': accId,
13         'desc': desc,
14         'status': status
15     };
16     return this.http
17         .post<{ message: string, accountObj: any }>('http://localhost:4200/api/account', accountData);
18 }
19
20 getListUpdateListener() {
21     return this.listUpdated.asObservable();
22 }
23 }
24 }
25 }

```

Commit IDs

- 698be7c
- Testing

Test Case	Insert
Expected Behavior	Display success message
Test Steps	Goto add account page Insert data Press save
Test Status	Passed

3.5 Task 5 Detailed Account Page Update Method Calls

Estimate Time: 2 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

From this task I have Implemented the front end and middle tier code to update data.

```

onSaveAccount(formDirective: FormGroupDirective) {
  if (this.form.invalid) {
    return;
  }
  if (this.mode === 'new') {
    this.accountService.addAccount(this.form.value.accId, this.form.value.desc, this.form.value.status);
    this.openSnackBar(accountData.message, null);
  });
  formDirective.resetForm();
  this.form.reset();
} else {
  this.accountService.updateAccount(this.accountId, this.form.value.desc, this.form.value.status)
    .subscribe((accountData: any) => {
      this.openSnackBar(accountData.message, null);
    });
}
}
}

```

```

openSnackBar(message: string, action?: string) {
  this.snackBar.open(message, action ? 'Action Label' : 'Hide', null);
}

```

```

ngOnInit() {
  this.form = new FormGroup({
    accId: new FormControl(null, {
      validators: []
    }),
    desc: new FormControl(null, { validators: [Validators.required]}),
    status: new FormControl(null, { validators: [Validators.required]})
  });
  this.route.paramMap.subscribe((paramMap: ParamMap) => {
    if (paramMap.has('accountId')) {
      this.mode = 'update';
      this.formTitle = 'Update Account';
      this.accountId = paramMap.get('accountId');
      this.loading = true;
      this.accountService.getAccount(this.accountId).subscribe(accountData => {
        this.updatingAcc = {
          id: accountData.documents._id,
          accId: accountData.documents.accId,
          desc: accountData.documents.desc,
          status: accountData.documents.status
        };
        this.form.setValue({
          accId: this.updatingAcc.accId,
          desc: this.updatingAcc.desc,
          status: this.updatingAcc.status
        });
        this.form.controls['accId'].setValidators([]);
        this.form.get('accId').disable();
        this.loading = false;
      });
    } else {
      this.mode = 'new';
      this.formTitle = 'Add new Account';
      this.accountId = null;
      this.form.controls['accId'].setValidators([Validators.required]);
      this.form.get('accId').enable();
    }
  });
}
}

```

```

router.put("/:id", (req, res, next) => {
  let fetchedAccountId;
  const account = new AccountSchema({
    accId: req.body.accId,
    desc: req.body.desc,
    status: req.body.status
  });

  AccountSchema.findOne({
    accId: req.params.id
  })
  .exec()
  .then(documents => {
    fetchedAccountId = documents._id;
    const account = new AccountSchema({
      _id: fetchedAccountId,
      accId: req.body.accId,
      desc: req.body.desc,
      status: req.body.status
    });
    AccountSchema.updateOne({ _id: fetchedAccountId }, account).then(
      result => {
        res.status(200).json({
          message: "Account Updated!"
        });
      }
    );
  });
});
});

```

```

updateAccount (accId: string, desc: string, status: string) {
  const accountData = {
    'desc': desc,
    'status': status
  };
  return this.http.put('http://localhost:4200/api/account/' + accId, accountData);
}

```

I Also dynamically changed the add account page to update.

Accounts

Summary

Accounts

Add Account

Transactions

Add Transaction

Update Account

Account ID
PROJ_Y

Description
Project Y account

Status
Close

Save Account

Commit IDs:

- 42ac9fc
- Testing

Test Case	Update
Expected Behavior	Display Update Success message
Test Steps	Select edit button on accounts page Edit data Press save
Test Status	Passed

3.6 Task 6 Detailed Account Page Delete Method Calls

Estimate Time: 2 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

From this task I have Implemented the front end and middle tier code to delete data.

```

07
08 router.delete("/:id", (req, res, next) => {
09     TransactionSchema.findOne({
10         accId: req.params.id
11     })
12     .exec()
13     .then(documents => {
14         if (documents) {
15             console.log("file deletion failed: ");
16             res
17                 .status(200)
18                 .json({ message: "Account cannot be deleted. Transactions exist"
19         } else {
20             console.log("no transactions for Account");
21             AccountSchema.deleteOne({ accId: req.params.id }).then(result =>
22                 console.log("Account deleted!");
23                 res.status(200).json({ message: "Account deleted!" });
24             });
25         }
26     })
27     .catch(error => {
28         console.log("failed delete: " + error.message);
29     });
30 });
31
32 module.exports = router;
33

```

```

onDelete(row: any) {
    console.log(row.id);
    this.loading = true;
    this.accountService.deleteAccount(row.accId).subscribe((accountData: any) => {
        // window.alert(accountData.message);
        this.openSnackBar(accountData.message, null);
        this.accountService.getAccounts(this.accountsPerPage, this.currPage);
    });
}

highlight(row) {
    this.selectedRowIndex = row.id;
}

openSnackBar(message: string, action?: string) {
    this.snackBar.open(message, action ? 'Action Label' : 'Hide', null);
}
}

```

```

deleteAccount(id: string) {
    return this.http.delete('http://localhost:4200/api/account/' + id);
}

```

- Testing

Test Case	Delete
-----------	--------

Expected Behavior	Display delete message Record disappear
Test Steps	Press delete on Accounts page
Test Status	Passed

3.7 Task 7 Detailed Account Page Validation Methods

Estimate Time: 2 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

From this task I added front end and middle tier validations to accounts and transactions.

```
router.delete("/:id", (req, res, next) => {
  TransactionSchema.findOne({
    accId: req.params.id
  })
  .exec()
  .then(documents => {
    if (documents) {
      console.log("file deletion failed: ");
      res
        .status(200)
        .json({ message: "Account cannot be deleted. Transactions exist!" });
    } else {
      console.log("no transactions for Account");
      AccountSchema.deleteOne({ accId: req.params.id }).then(result => {
        console.log("Account deleted!");
        res.status(200).json({ message: "Account deleted!" });
      });
    }
  })
  .catch(error => {
    console.log("failed delete: " + error.message);
  });
});

module.exports = router;
```

```

router.delete("/:id", (req, res, next) => {
  TransactionSchema.findOne({
    _id: req.params.id
  })
  .exec()
  .then(documents => {
    if (documents && documents.entered == "SYSTEM") {
      console.log("file deletion failed: ");
      res
        .status(200)
        .json({
          message: "Cannot delete Transactions entered by the system."
        });
    } else {
      console.log("no transactions for Account");
      TransactionSchema.deleteOne({ _id: req.params.id }).then(result => {
        console.log("Transaction deleted!");
        res.status(200).json({ message: "Transaction deleted!" });
      });
    }
  })
  .catch(error => {
    console.log("failed delete: " + error.message);
  });
});

```

```

ngOnInit() {
  this.form = new FormGroup({
    accId: new FormControl(null, {
      validators: []
    }),
    desc: new FormControl(null, { validators: [Validators.required]}),
    status: new FormControl(null, { validators: [Validators.required]}
  ));
}

```

```

ngOnInit() {
  this.form = new FormGroup({
    accId: new FormControl(null, {
      validators: []
    }),
    amount: new FormControl(null, { validators: [Validators.required]}),
    desc: new FormControl(null, { validators: [Validators.required]}),
    donation: new FormControl(null, { validators: [Validators.required]}
  ));
}

```

3.8 Task 8 Detailed Account Page Transaction Table Insert Methods

Estimate Time: 2 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

From this task I have Implemented the front end and middle tier code to insert data.

```
onSaveTransaction(formDirective: FormGroupDirective) {
  if (this.form.invalid) {
    return;
  }
  if (this.mode === 'new') {
    this.transactionService
      .addTransaction(this.form.value.accId, this.form.value.amount, this.form.value.desc, this.userId, this.form.value.donation)
      .subscribe((transactionData: any) => {
        this.openSnackBar(transactionData.message, null);
      });
    formDirective.resetForm();
    this.form.reset();
  } else {
    this.transactionService
      .updateTransaction
      (this.transactionId, this.form.value.accId, this.form.value.amount, this.form.value.desc, this.userId, this.form.value.donation)
      .subscribe((transactionData: any) => {
        this.openSnackBar(transactionData.message, null);
      });
  }
}
```

```
4
5 router.post("/", (req, res, next) => {
6   console.log(req.body);
7   const transaction = new TransactionSchema({
8     accId: req.body.accId,
9     amount: req.body.amount,
10    desc: req.body.desc,
11    entered: req.body.entered,
12    donation: req.body.donation
13  });
14  transaction.save().then(createdTransaction => {
15    res.status(201).json({
16      message: "Transaction added successfully",
17      transactionObj: {
18        ...createdTransaction,
19        id: createdTransaction._id
20      }
21    });
22  });
23 });
24
```

```
addTransaction(accId: string, amount: number, desc: string, entered: string, donation: string) {
  const transactionData = {
    'accId': accId,
    'amount': amount,
    'desc': desc,
    'entered': entered,
    'donation': donation
  };
  return this.http
    .post<{ message: string, transactionObj: any }>('http://localhost:4200/api/transaction', transactionData);
}

getListUpdateListener() {
  return this.listUpdated.asObservable();
}
}
```

- Testing

Test Case	Insert
-----------	--------

Expected Behavior	Display success message
Test Steps	Goto add transactions page Insert data Press save
Test Status	Passed

3.9 Task 9 Detailed Account Page Transaction Table Update Methods

Estimate Time: 2 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

From this task I have Implemented the front end and middle tier code to update data.

```
onSaveTransaction(formDirective: FormGroupDirective) {
  if (this.form.invalid) {
    return;
  }
  if (this.mode === 'new') {
    this.transactionService
      .addTransaction(this.form.value.accId, this.form.value.amount, this.form.value.desc, this.userId, this.form.value.donation)
      .subscribe((transactionData: any) => {
        this.openSnackBar(transactionData.message, null);
      });
    formDirective.resetForm();
    this.form.reset();
  } else {
    this.transactionService
      .updateTransaction(
        this.transactionId, this.form.value.accId, this.form.value.amount, this.form.value.desc, this.userId, this.form.value.donation
      )
      .subscribe((transactionData: any) => {
        this.openSnackBar(transactionData.message, null);
      });
  }
}
```

```
router.put("/:id", (req, res, next) => {
  const transaction = new TransactionSchema({
    _id: req.params.id,
    accId: req.body.accId,
    amount: req.body.amount,
    desc: req.body.desc,
    donation: req.body.donation,
    entered: req.body.entered,
    date: Date.now()
  });
  TransactionSchema.updateOne({ _id: req.params.id }, transaction).then(result => {
    res.status(200).json({
      message: "Transaction Updated!"
    });
  });
});
```

```
updateTransaction (id: string, accId: string, amount: string, desc: string, entered: string, donation: string) {  
  const transactionData = {  
    'accId': accId,  
    'amount': amount,  
    'desc': desc,  
    'entered': entered,  
    'donation': donation  
  };  
  return this.http.put('http://localhost:4200/api/transaction/' + id, transactionData);  
}
```

I Also dynamically changed the add transaction page to update.

```

ngOnInit() {
  this.form = new FormGroup({
    accId: new FormControl(null, {
      validators: []
    }),
    amount: new FormControl(null, { validators: [Validators.required]}),
    desc: new FormControl(null, { validators: [Validators.required]}),
    donation: new FormControl(null, { validators: [Validators.required]})
  });
  this.route.paramMap.subscribe((paramMap: ParamMap) => {
    if (paramMap.has('transactionId')) {
      this.mode = 'update';
      this.formTitle = 'Update Transaction';
      this.transactionId = paramMap.get('transactionId');
      this.loading = true;
      this.transactionService.getTransaction(this.transactionId).subscribe(transactionData => {
        this.updatingTra = {
          id: transactionData.documents._id,
          accId: transactionData.documents.accId,
          amount: transactionData.documents.amount,
          desc: transactionData.documents.desc,
          entered: transactionData.documents.entered,
          date: transactionData.documents.date,
          donation: transactionData.documents.donation
        };
        this.form.setValue({
          accId: this.updatingTra.accId,
          amount: this.updatingTra.amount,
          desc: this.updatingTra.desc,
          donation: this.updatingTra.donation
        });
        this.form.controls['accId'].setValidators([]);
        this.form.get('accId').disable();
        this.loading = false;
      });
    } else if (paramMap.has('accountId')) {
      this.mode = 'new';
      this.formTitle = 'Add new Transaction';
      this.accountId = paramMap.get('accountId');
      this.transactionId = null;
      this.form.controls['accId'].setValidators([Validators.required]);
      this.form.get('accId').enable();
      this.form.setValue({
        accId: this.accountId,
        amount: null,
        desc: null,
        donation: 'No'
      });
    } else {
      this.mode = 'new';
      this.formTitle = 'Add new Transaction';
      this.transactionId = null;
      this.form.controls['accId'].setValidators([Validators.required]);
      this.form.get('accId').enable();
    }
  });
}
}

```


Accounts

Summary

Accounts

Add Account

Transactions

Add Transaction

Update Transaction

Account ID

1111

Amount

-2000

Description

qweweq

Donation

No

Save Transaction

- Testing

Test Case	Update
Expected Behavior	Display Update Success message
Test Steps	Select edit button on transaction page Edit data Press save
Test Status	Passed

3.10 Task 10 Detailed Account Page Transaction Table Delete Methods

Estimate Time: 2 Hours

Actual Time: 2 Hours

Actual Time (this sprint): 2 Hours

Description

From this task I have Implemented the front end and middle tier code to delete data.

```

96 router.delete("/:id", (req, res, next) => {
97   TransactionSchema.findOne({
98     _id: req.params.id
99   })
100   .exec()
101   .then(documents => {
102     if (documents && documents.entered == "SYSTEM") {
103       console.log("file deletion failed: ");
104       res
105         .status(200)
106         .json({
107           message: "Cannot delete Transactions entered by the system."
108         });
109     } else {
110       console.log("no transactions for Account");
111       TransactionSchema.deleteOne({ _id: req.params.id }).then(result => {
112         console.log("Transaction deleted!");
113         res.status(200).json({ message: "Transaction deleted!" });
114       });
115     }
116   })
117   .catch(error => {
118     console.log("failed delete: " + error.message);
119   });
120 });
121
122 module.exports = router;
123

```

```

1 onDelete(row: any) {
2   console.log(row.id);
3   this.loading = true;
4   this.transactionService.deleteTransaction(row.id).subscribe((transactionData: any) => {
5     this.openSnackBar(transactionData.message, null);
6     this.transactionService.getTransactions(this.transactionsPerPage, this.currPage, this.accountId);
7   });
8 }
9
10 highlight(row) {
11   this.selectedRowIndex = row.id;
12 }
13
14 openSnackBar(message: string, action?: string) {
15   this.snackBar.open(message, action ? 'Action Label' : 'Hide', null);
16 }
17
18 }
19
20 deleteTransaction(id: string) {
21   return this.http.delete('http://localhost:4200/api/transaction/' + id);
22 }
23

```

- Testing

Test Case	Delete
Expected Behavior	Display delete message Record disappear
Test Steps	Press delete on transactions page
Test Status	Passed

3.11 Task 11 Sprint 4 Planning

Estimate Time: 1 Hours

Actual Time: 1 Hours

Actual Time (this sprint): 1 Hours

Description

This task is to plan upcoming sprint.

Please find the sprint 4 planning meeting minutes from the following link.

Bitbucket Link:

https://bitbucket.org/Computing_Projects_SLIIT/2018_sd07/src/master/Documents/Sprint%20Documents/Sprint%204/Sprint%204%20Planning%20Minutes.pdf

3.12 Task 12 Discuss design issues Sprint 3

Estimate Time: 1 Hours

Actual Time: 1 Hours

Actual Time (this sprint): 1 Hours

Description

This task is to discuss and solve technical and design issues.

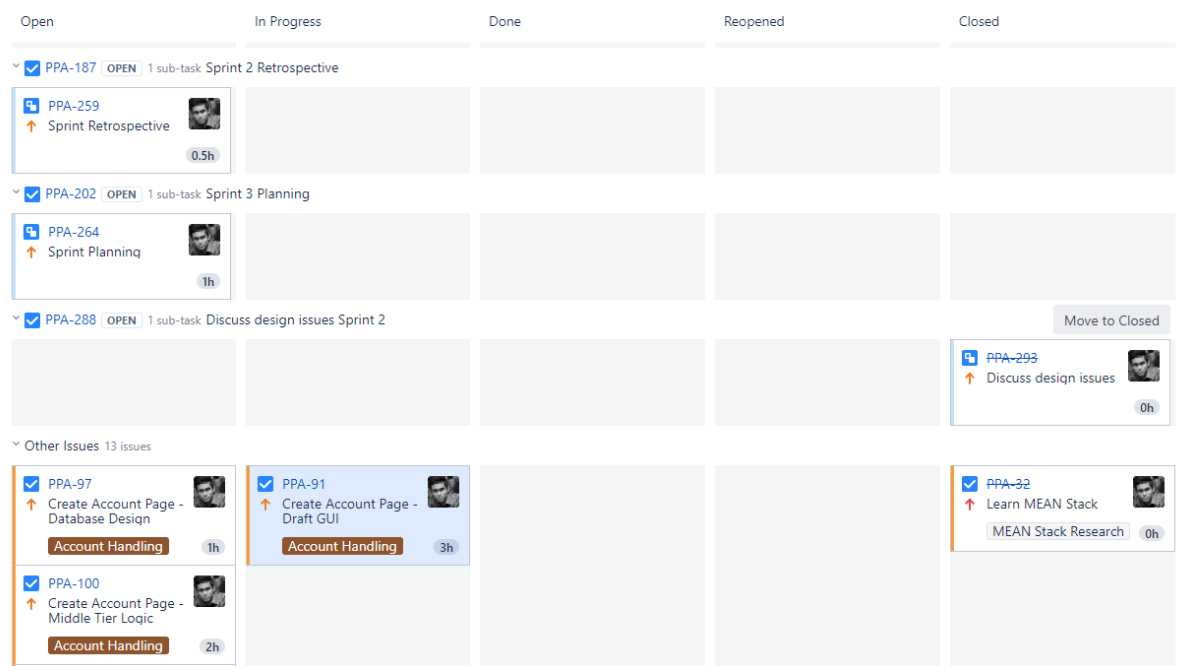
4. Development Methodology

4.1 Minutes

We use Jira as a project management tool. Here is my issue dashboard.

PPA Sprint 2

QUICK FILTERS: [Unassigned](#) [Only My Issues](#) [Recently Updated](#)



We had 5 standup meetings within this sprint and the minutes of those meetings can be found from the following link.

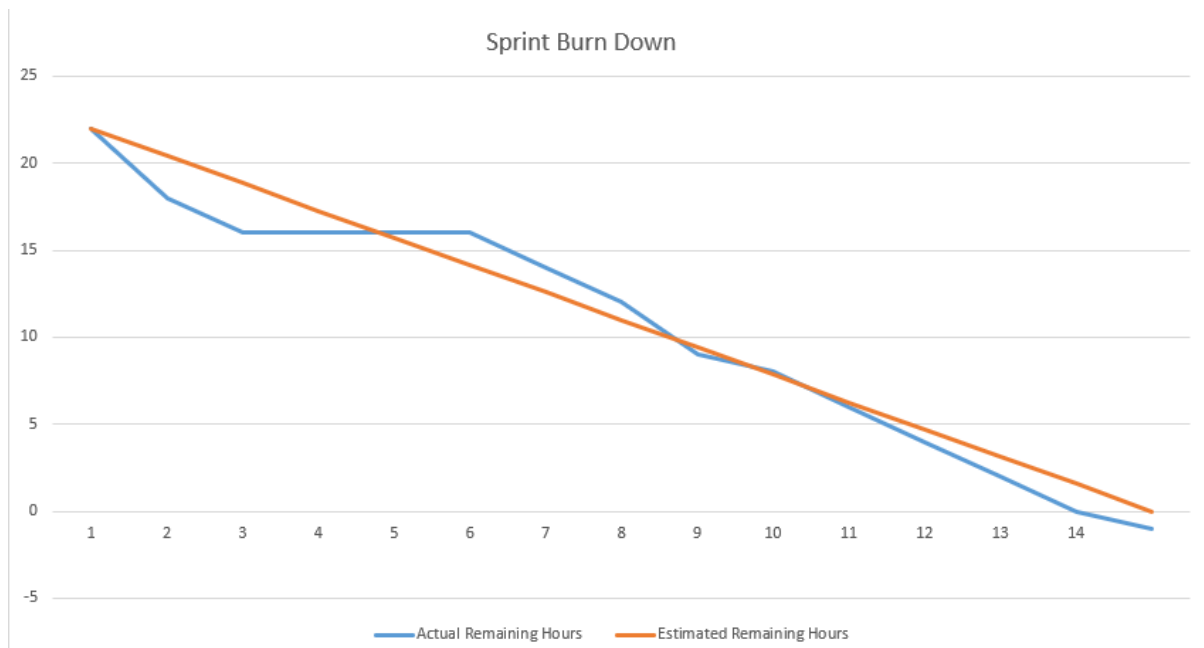
Standup Meeting Minutes:

https://bitbucket.org/Computing_Projects_SLIIT/2018_sd07/src/master/Documents/Standup%20Meeting%20Minutes/Sprint%203/Standup%20Meeting%20-%20Sprint%203.pdf

4.2 Burndown Chart

Estimate Time: 22 Hours

Actual Time: 23 Hours



4.3 Sprint Retrospective

Note: This is a continuing task for each sprint.

Estimate Time: 0.5 Hours

Actual Time: 0.5 Hours

Actual Time (this sprint): 0.5 Hours

4.4 Task Summary

Estimate Time: 22 Hours

Actual Time: 23 Hours

Completed 12 Task during this Sprint.

4.5 Time Management

#	Task ID	Task	Hours Estimated	Actual
---	---------	------	--------------------	--------

1	PPA-	Detailed Account Page Designing	1	1
2	PPA-	Detailed Account Page Implementation	4	5
3	PPA-	Detailed Account Page - Database Design	1	1
4	PPA-	Detailed Account Page - Insert Method Calls	2	2
5	PPA-	Detailed Account Page Update Method Calls	2	2
6	PPA-	Detailed Account Page Delete Method Calls	2	2
7	PPA-	Detailed Account Page Validation Methods	2	2
8	PPA-	Detailed Account Page Transaction Table Insert Methods	2	2
9	PPA-	Detailed Account Page Transaction Table Update Methods	2	2
10	PPA-	Detailed Account Page Transaction Table Delete Methods	2	2
11	PPA-	Sprint 4 Planning	1	1
12	PPa-	Discuss design issues Sprint 3	1	1
	Total		22	23