HTML

Additem.html:

```
<!DOCTYPE html>
href="http://code.jquery.com/mobile/1.4.5/jquery.mobile.structure-
type="text/javascript"></script>
src="../../CostManagerProject/CostManager/CostManager.js"></script>
src="../../CostManagerProject/CostManager/Item.js"></script>
</head>
    <script>
                window.CostManager.clearDb = function () {
                    window.CostManager.clearItems(true);
                    window.CostManager.clearDb();
                    var vec =window.CostManager.getItems(true);
window.CostManager.addItem("title", "description", "category", -5, 2, true);
                         if(e.toString().valueOf() != "Amount must be
                             console.log("addItem not working");
                             console.log("addItem is working");
```

```
console.log("addItem not working");
                window.CostManager.clearDb();
                    console.log("findItem is not working");
                var item2 = window.CostManager.findItem(0, true);
                    console.log("findItem is working")
                    console.log("findItem is not working")
                window.CostManager.clearDb();
                var date = new Date();
window.CostManager.updateItem(0,"title2","description2","category2",dat
e, 5, 3, true);
                var item = window.CostManager.getItems(true)[0];
                    console.log("updateItem is working");
                    console.log("updateItem is not working");
            window.CostManager.testGetItemsPerMonth = function() {//test
                window.CostManager.clearDb();
```

```
window.CostManager.addItem("title2", "description2", "category2", 6, 1, true
window.CostManager.addItem("title3", "description3", "category3", 8, 3, true
window.CostManager.addItem("title4", "description4", "category4", 5, 9, true
                var date1 = new Date();
                date1.setMonth(3);
                var date2 = new Date();
                date1.setMonth(5);
window.CostManager.updateItem(0, "title1", "description1", "category1", dat
window.CostManager.updateItem(1, "title2", "description2", "category2", dat
e1,6,1,true)
window.CostManager.updateItem(2, "title3", "description3", "category3", dat
window.CostManager.updateItem(3,"title4","description4","category4",dat
e1,5,9,true)
window.CostManager.getItemsPerMonth(3, true);
                     console.log("getItemsPerMonth is working");
                     console.log("getItemsPerMonth is working");
            window.CostManager.testAddCategory = function () {//tset
                window.CostManager.clearDb();
window.CostManager.getCategories(true).length;
                window.CostManager.addCategory("category", true);
window.CostManager.getCategories(true);
                     console.log("addCategory is working");
                     console.log("addCategory is not working");
            window.CostManager.testGetCategoryAmount = function ()
                window.CostManager.clearDb();
```

```
window.CostManager.addItem("title2", "description2", "category1", 6, 1, true
window.CostManager.getCategoryAmount("category1", true);
                    console.log("getCategoryAmount is working");
                    console.log("getCategoryAmount is not working");
            window.CostManager.testFindItem();
            window.CostManager.testEditItem();
            window.CostManager.testGetItemsPerMonth();
            window.CostManager.testAddCategory();
            window.CostManager.testGetCategoryAmount();
    </script>
```

Edititem.html:

```
<!DOCTYPE html>
href="http://code.jquery.com/mobile/1.4.5/jquery.mobile.structure-
    <script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.4.3/jquery.mobile-</pre>
1.4.3.min.js"></script>
    <script src="CostManager.js"></script>
    <title>ToDo List</title>
</head>
    #errorMsg {
    <div data-role="header">
    </div>
            select category:
                <option value="" selected disabled hidden></option>
            </select>
            new category: <input type="text" id="newCategory">
            <label for="date">Start date:</label>
            amount: <input type="number" id="amount"/>
            price: <input type="number" id="price"/>
            <div id="message"></div>
```

```
</form>
    </div>
    <script>
        var data = localStorage.getItem("item id");//get id of selected
        var itemId = data;
            if(data!=null){//load selected item to ui
                let item = window.CostManager.findItem(data);
                localStorage.removeItem("item id")
                var title = document.getElementById("title").value;
document.getElementById("description").value;
                var amount = document.getElementById("amount").value;
                var price = document.getElementById("price").value;
                document.getElementById("title").value = item.name;
                document.getElementById("description").value =
                document.getElementById("amount").value = item.amount;
                document.getElementById("price").value = item.price;
window.CostManager.getCategories();
+'">' + jsonDataForCategory[field] + '</option>').appendTo('#category-
                var options = document.getElementById("category-
                    if (options[i].value.toString().valueOf() ==
item.category.toString().valueOf()) {
                document.getElementById("date").valueAsDate = new
Date(item.year,item.month-1,item.day+1);
        window.CostManager.loadUI();
        window.CostManager.handleSaveButtonClick = function() {//save
```

```
var title = document.getElementById("title").value;
document.getElementById("description").value;
            var selector =document.getElementById("category-select")
            var category =
            var amount = document.getElementById("amount").value;
            var price = document.getElementById("price").value;
                if(category.toString().valueOf() == "New
document.getElementById("newCategory").value;
                if(category.toString().valueOf() == ""){//category
                    document.getElementById("errorMsg").innerHTML =
                document.getElementById("errorMsg").innerHTML = "";
window.CostManager.updateItem(itemId, title, description, category, date, am
ount,price);//update item in db
                    document.getElementById("errorMsg").innerHTML =
exception;//print error message
        window.CostManager.handleBackButtonClick = function (){//back
            location.href = "showitems.html";
document.getElementById("back").addEventListener("click", window.CostMan
ager.handleBackButtonClick);
        document.getElementById("save").addEventListener("click",
        window.CostManager.handleCategorySelect = function () {//disable
            var selector =document.getElementById("category-select")
            var selectedCategory =
            if (selectedCategory == "New Category") {
                document.getElementById("newCategory").disabled =
```

```
    else {
        document.getElementById("newCategory").disabled = true;
    }

    window.CostManager.addCategory(selectedCategory);

}

document.getElementById("category-
select").addEventListener('change', window.CostManager.handleCategorySel
ect)

$(document).ready(function()){
        document.getElementById("newCategory").disabled = true;
});

</script>
</div>
</div>
</div>
</div>
</div>
</hd>
</dr>
</rl>
```

Itemschart:

```
type="text/javascript"></script>
1.4.3.min.js" type="text/javascript"></script>
    <script src="Item.js"></script>
</head>
    </div>
        <a href="showitems.html"data-ajax="false" data-role="button"</pre>
data-inline="true" >show items</a>
    </div>
    <div data-role="footer">
        <h4> </h4>
    </div>
    <div id="piechart"></div>
    <script type="text/javascript"</pre>
src="https://www.gstatic.com/charts/loader.js"></script>
</div>
    google.charts.setOnLoadCallback(drawChart);
    function drawChart() {
        var categories = window.CostManager.getCategories();
```

```
parseInt(window.CostManager.getCategoryAmount(categories[n]))
"+window.CostManager.getCostPerCategory(categories[n]),                     amount ])
google.visualization.arrayToDataTable(dataArray);
google.visualization.PieChart(document.getElementById('piechart'));
        chart.draw(data, options);
        var endDate = new Date($('#endDate').val());
        startDate.setHours(0,0,0,0);
        endDate.setHours(0,0,0,0);
        if(startDate <= endDate){</pre>
            document.getElementById("errorMsg").innerHTML = "";
            var filteredItems =
window.CostManager.filterDates(startDate, endDate);
            var categories = window.CostManager.getCategories();
            for (var n =0; n < categories.length; n++) {</pre>
parseInt(window.CostManager.getCategoryAmountByDate(categories[n],start
"+window.CostManager.getCostPerCategoryByDate(categories[n],startDate,e
ndDate), amount ])
google.visualization.arrayToDataTable(dataArray);
google.visualization.PieChart(document.getElementById('piechart'));
            document.getElementById("errorMsg").innerHTML = "Start date
    document.getElementById("filterBtn").addEventListener("click",
window.CostManager.handleFilterButtonClick);
```

```
document.getElementById("errorMsg").innerHTML = "";

var dataArray = [['Category', 'Purches Amount']];
var categories = window.CostManager.getCategories();
for (var n = 0; n < categories.length; n++) {
    var amount =

parseInt(window.CostManager.getCategoryAmount(categories[n]))
    dataArray.push ([categories[n]+" total cost:
"+window.CostManager.getCostPerCategory(categories[n]), amount ])
    }
    // set chart properties
    var options = {'title':'My purches', 'width':200,
'height':200,left:20,top:0,width:'75%',height:'75%'};

var data = new
google.visualization.arrayToDataTable(dataArray);
    var chart = new
google.visualization.PieChart(document.getElementById('piechart'));
    chart.draw(data, options);
    }
    document.getElementById("resetFilterBtn").addEventListener("click",
window.CostManager.resetFilter);
</script>
</body>
</html>
```

Showitems.html:

```
<!DOCTYPE html>
type="text/javascript"></script>
1.4.3.min.js" type="text/javascript"></script>
    <script src="Item.js"></script>
</head>
   </div>
        <a href="itemschart.html" data-ajax="false"data-role="button"</pre>
data-inline="true">items chart</a>
            <input type="button" value="Filter list" id="filterBtn"/>
            <input type="button" value="ResetFilter"</pre>
id="resetFilterBtn"/>
        </form>
        </div>
    <div data-role="footer">
              </h4>
    </div>
</div>
<script type="text/javascript">
            window.CostManager.initializeList = function() {
                document.getElementById("errorMsg").innerHTML = "";
                var list = document.getElementById('list');
```

```
myList.empty();
                var vec = window.CostManager.getItems();
                vec.forEach(
                        var a = document.createElement("a");
document.createTextNode(item.description);
                        a.appendChild(text);
                        a.appendChild(document.createElement("br"))
                        a.appendChild(description);
                        li.appendChild(a);
                            localStorage.setItem("item id",item.myId);
                            location.href = "edititem.html?";
                        list.appendChild(li);
        window.CostManager.handleFilterButtonClick =
            var month = document.getElementById("filter").value;
                document.getElementById("errorMsg").innerHTML = "";
                var list = document.getElementById('list');
                myList.empty();
window.CostManager.getItemsPerMonth(document.getElementById("filter").v
                vec.forEach(
                        var li = document.createElement("li");
document.createTextNode(item.description);
                        description.fontSize = "10px"
                        a.appendChild(text);
                        a.appendChild(document.createElement("br"))
                        a.appendChild(description);
```

Javascript

Item.js:

```
month, year) {
                idIndex = localStorage.getItem("id indexTest");
                idIndex = localStorage.getItem("id index");
                this.myId = idIndex;
                this.myId = idIndex;
                localStorage.setItem("id indexTest",idIndex);
                localStorage.setItem("id index",idIndex);
```

```
set name(name) {
get description(){
set description(description) {
get category(){
set category(category){
get amount(){
set price(price) {
```

```
get year(){
set year(year) {
set myId(id){
```

CostManager.js

```
window.CostManager.CostManagerException = function (msg) {
    if(!Number.isInteger(parseFloat(amount))){
    if(price <=0){</pre>
    var date = new Date();
    var day = date.getDate();
    category = category.toString();
    window.CostManager.addCategory(category);
        var data = localStorage.getItem("todoTest");
        var data = localStorage.getItem("todo");
        var arrayOfObjects = [];
        arrayOfObjects.push(ob);
        var text = JSON.stringify(arrayOfObjects);
            localStorage.setItem("todoTest", text);
            localStorage.setItem("todo", text);
        var arrayOfObjects = JSON.parse(data);
        arrayOfObjects.push(ob);
        var text = JSON.stringify(arrayOfObjects);
            localStorage.setItem("todoTest", text);
```

```
localStorage.setItem("todo", text);
window.CostManager.getItems = function(isTest) {//get item from db
        var data = localStorage.getItem("todoTest");
        var data = localStorage.getItem("todo");
        var result = JSON.parse(data);
window.CostManager.getItemsPerMonth = function (month, isTest) { //get
    vec.forEach(
window.CostManager.findItem = function (id, isTest) {//get specific item
    vec.forEach(
```

```
window.CostManager.updateItem = function (id, name, description,
    if(!Number.isInteger(parseFloat(amount))){
    var vec = window.CostManager.getItems(isTest);
    category = category.toString();
    window.CostManager.addCategory(category,isTest);
                vec[i].month = date.getMonth() +1;
                    localStorage.removeItem("todoTest")
                    localStorage.setItem("todoTest", text);
                    localStorage.removeItem("todo")
                    localStorage.setItem("todo", text);
```

```
var data = localStorage.getItem("categoriesTest");
        var data = localStorage.getItem("categories");
        var result = JSON.parse(data);
window.CostManager.addCategory = function(category, isTest) { //add
    var categories = window.CostManager.getCategories(isTest);
        if(ob.toString().toUpperCase().valueOf() ==
category.toString().toUpperCase().valueOf()){
    categories.push(category);
    if(isTest) {
        localStorage.setItem("categoriesTest", text);
        localStorage.setItem("categories", text);
    items.forEach(
window.CostManager.filterDates = function (startDate, endDate,
isTest) { // get all items from range of dates
```

```
var itemDate = new Date(ob.year,ob.month,ob.day);
    return filteredItems;
window.CostManager.getCategoryAmountByDate = function (category,
    var items = window.CostManager.getItems(isTest);
            var itemDate = new Date(ob.year, ob.month-1, ob.day);
        localStorage.removeItem("todoTest");
        localStorage.removeItem("todo");
window.CostManager.clearCategories = function (isTest){//clear all
        localStorage.removeItem("categoriesTest");
        localStorage.removeItem("categories");
window.CostManager.clearIds = function (isTest) {//clear all ids from db
        localStorage.removeItem("id indexTest");
```

```
localStorage.removeItem("id index");
window.CostManager.getCostPerCategory = function (category,
            if (ob.category.toString().toUpperCase().valueOf() ==
category.toString().toUpperCase().valueOf()){
                costSum = costSum + (parseInt(ob.amount) *
parseFloat(ob.price));
window.CostManager.getCostPerCategoryByDate = function
    var items = window.CostManager.getItems(isTest);
    items.forEach(
            var itemDate = new Date(ob.year,ob.month-1,ob.day);
itemDate <=endDate) {</pre>
                costSum = costSum + (parseInt(ob.amount) *
parseFloat(ob.price));
```

Tests

costmanagertests.html:

```
window.CostManager = {};
window.CostManager.CostManagerException = function (msg) {
    if(!Number.isInteger(parseFloat(amount))){
    var date = new Date();
    var month = date.getMonth() +1;
    var year = date.getFullYear();
   category = category.toString();
    window.CostManager.addCategory(category);
        var data = localStorage.getItem("todoTest");
        var data = localStorage.getItem("todo");
        var text = JSON.stringify(arrayOfObjects);
            localStorage.setItem("todoTest", text);
            localStorage.setItem("todo", text);
        var arrayOfObjects = JSON.parse(data);
```

```
arrayOfObjects.push(ob);
        var text = JSON.stringify(arrayOfObjects);
            localStorage.setItem("todoTest", text);
            localStorage.setItem("todo", text);
        var data = localStorage.getItem("todoTest");
       var data = localStorage.getItem("todo");
        var result = JSON.parse(data);
window.CostManager.getItemsPerMonth = function (month, isTest) { //get
    vec.forEach(
window.CostManager.findItem = function (id, isTest) { //get specific item
    vec.forEach(
```

```
window.CostManager.updateItem = function (id, name, description,
    if(!Number.isInteger(parseFloat(amount))){
   category = category.toString();
   window.CostManager.addCategory(category,isTest);
   vec.forEach(
                vec[i].year = date.getFullYear();
                vec[i].month = date.getMonth() +1;
                var text = JSON.stringify(vec);
                    localStorage.removeItem("todoTest")
                    localStorage.setItem("todoTest", text);
                    localStorage.removeItem("todo")
                    localStorage.setItem("todo", text);
```

```
window.CostManager.getCategories = function (isTest) {//get all
        var data = localStorage.getItem("categoriesTest");
       var data = localStorage.getItem("categories");
       var result = JSON.parse(data);
    var categories = window.CostManager.getCategories(isTest);
       if(ob.toString().toUpperCase().valueOf() ==
category.toString().toUpperCase().valueOf()){
    var text = JSON.stringify(categories);
        localStorage.setItem("categoriesTest", text);
       localStorage.setItem("categories", text);
window.CostManager.getCategoryAmount = function (category,
```

```
var items = window.CostManager.getItems(isTest);
   items.forEach(
            var itemDate = new Date(ob.year, ob.month, ob.day);
window.CostManager.getCategoryAmountByDate = function (category,
   var items = window.CostManager.getItems(isTest);
       localStorage.removeItem("todoTest");
       localStorage.removeItem("todo");
        localStorage.removeItem("categoriesTest");
       localStorage.removeItem("categories");
```

```
localStorage.removeItem("id indexTest");
        localStorage.removeItem("id index");
window.CostManager.getCostPerCategory = function (category,
        items = window.CostManager.getItems();
            if (ob.category.toString().toUpperCase().valueOf() ==
category.toString().toUpperCase().valueOf()){
parseFloat(ob.price));
window.CostManager.getCostPerCategoryByDate = function
    items.forEach(
parseFloat(ob.price));
```

```
return costSum;
}
```