

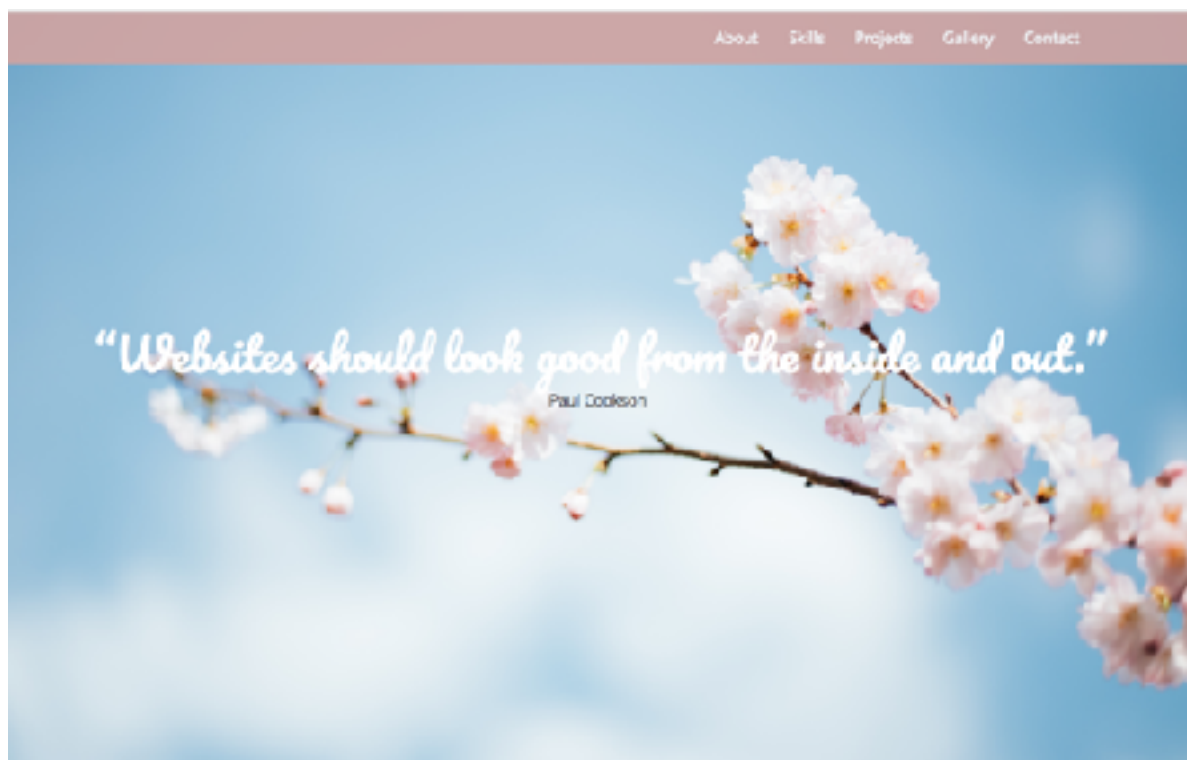
Pham Quynh Huong

Student number: 1600026

Developing Modern Web Platforms

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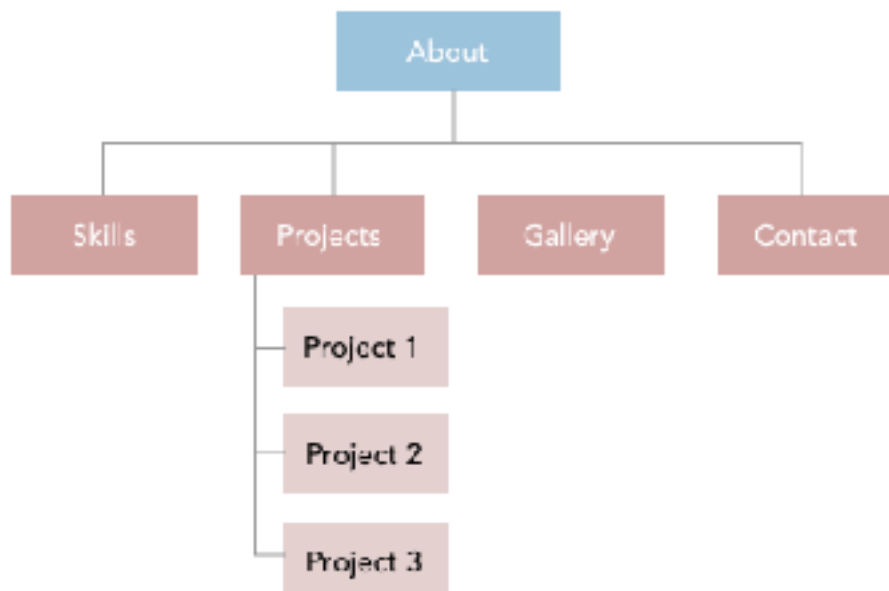
## Personal website



## 1. Introduction

My personal website aims to show my professional skills and projects which I have done so far. The website is implemented using HTML5, CSS3 with Bootstrap framework and Javascript. Besides, the website is expected to meet the usability angle as well as the aesthetic perspective.

## 2. Sitemap



My website has 5 pages including: About, Skills, Projects, Gallery, Contact.

### 3. About page

The page is front page which includes my picture and introduction about me.

Functions:

- **Nav bar changes color when scrolling**

Screenshots



Coding

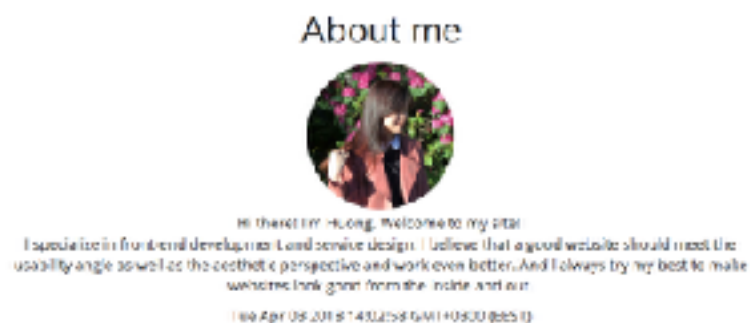
```

window.addEventListener("scroll", function(e) {
  var nav = document.getElementById("mynav");
  if (nav != null) {
    if (
      document.documentElement.scrollTop ||
      document.body.scrollTop > window.innerHeight
    ) {
      nav.classList.add("nav-colored");
      nav.classList.remove("nav-transparent");
    } else {
      nav.classList.add("nav-transparent");
      nav.classList.remove("nav-colored");
    }
  }
});

```

- Show current date and time at the bottom

## Screenshots



## Coding

```

function showTime() {
  var timeMsg = document.querySelector("#currentTime");
  if (timeMsg != null) {
    var today = new Date();
    timeMsg.textContent = today;
    setTimeout(function() {
      showTime();
    }, 500);
  }
}
showTime();

```

## 4. Skills page

This page presents professional skills which divided into 2 categories: programming and design.

Functions:

- **Add a new skill**

Screenshots

The image shows two screenshots of a web page titled "Professional Skills". The page is divided into two columns: "Programming Skills" and "Design Skills". Each column contains a list of skills with progress bars. Below the lists is a form to "Add a new skill".

**Top Screenshot:**

- Programming Skills:** HTML/CSS, JavaScript, React.
- Design Skills:** Adobe Illustrator, Sketch App.
- Add a new skill form:** Skill name: "C#", Value: "70", Category: "Programming", Add button.
- Remove the last skill:** Choose skill type dropdown, Remove button.

**Bottom Screenshot:**

- Programming Skills:** HTML/CSS, JavaScript, React, Java, C#.
- Design Skills:** Adobe Illustrator, Sketch App, Photoshop.
- Add a new skill form:** Skill name: "Java", Value: "20", Category: "Programming", Add button.
- Remove the last skill:** Choose skill type dropdown, Remove button.

Coding

```
var programmingList = document.querySelector("#programming-skills");
var designList = document.querySelector("#desgin-skills");
var programmingSkills = [];
var designSkills = [];
```

```
function addSkills() {  
  var addBtn = document.querySelector("#addSkill");
```

```
  if (addBtn != null) {  
    addBtn.addEventListener("click", function() {  
      var newskillName = document.querySelector("#skill-name").value;  
      var newskillCompetence = document.querySelector("#skill-competence")  
        .value;  
      var type = document.querySelector("#skill-type").value;
```

```
      if (type === "programming") {  
        programmingSkills.push({  
          name: newskillName,  
          competence: Number(newskillCompetence)  
        });  
        programmingList.innerHTML = renderSkills(programmingSkills);  
      }  
      if (type === "design") {  
        designSkills.push({  
          name: newskillName,  
          competence: Number(newskillCompetence)  
        });  
        designList.innerHTML = renderSkills(designSkills);  
      }  
    });  
  }  
}
```

```
addSkills();
```

```
function renderSkills(skills) {  
  var result = "";
```

```
  for (var i = skills.length - 1; i >= 0; i--) {  
    result += skillElement(skills[i]);  
  }
```

```
  return result;
```

```
}
```

```
function skillElement(skill) {  
  return (  
    "<p>" +  
    skill.name +  
    "</p>\n"  
    <div class='progress'>\n  
    <div\  
    class='progress-bar'\n  
    role='progressbar'\n  
    aria-valuenow=" +  
    skill.competence +  
    "\n"  
    aria-valuemin='0'\n  
    aria-valuemax='100'\n  
    style='width: " +  
    skill.competence +  
    "%'>\n  
    </div>\n  
    </div>"  
  );  
}
```

- Remove the last skill

Screenshots

## Professional Skills

### Programming Skills

HTML/CSS

JavaScript

React

Java

### Design Skills

Adobe Illustrator

Sketch App

Photoshop

Add a new skill

Enter skill name

Enter skill competence

Programming

Add

Remove the last skill

Programming

Remove

## Coding

```
function removeSkill() {  
    var removeBtn = document.querySelector("#removeSkill");  
  
    if (removeBtn != null) {  
        removeBtn.addEventListener("click", function() {  
            var type = document.querySelector("#skill-type-remove").value;  
  
            if (type === "programming") {  
                programmingSkills.shift();  
                programmingList.innerHTML = renderSkills(programmingSkills);  
            }  
            if (type === "design") {  
                designSkills.shift();  
                designList.innerHTML = renderSkills(designSkills);  
            }  
        });  
    }  
}  
removeSkill();
```



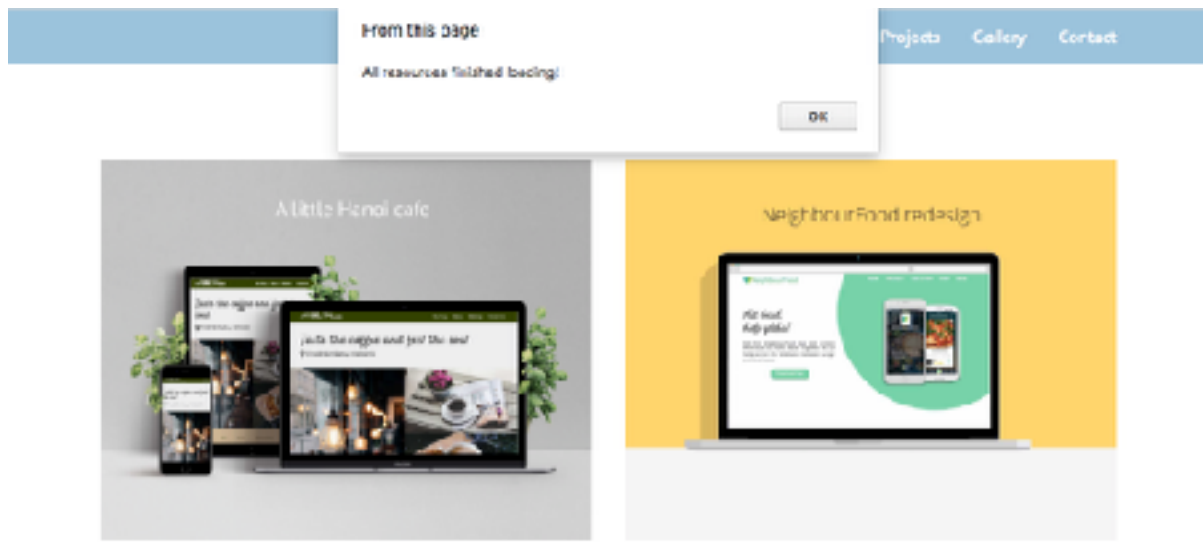
## 5. Projects page

This page has 3 projects.

Functions:

- **Alert when page is loaded**

Screenshots

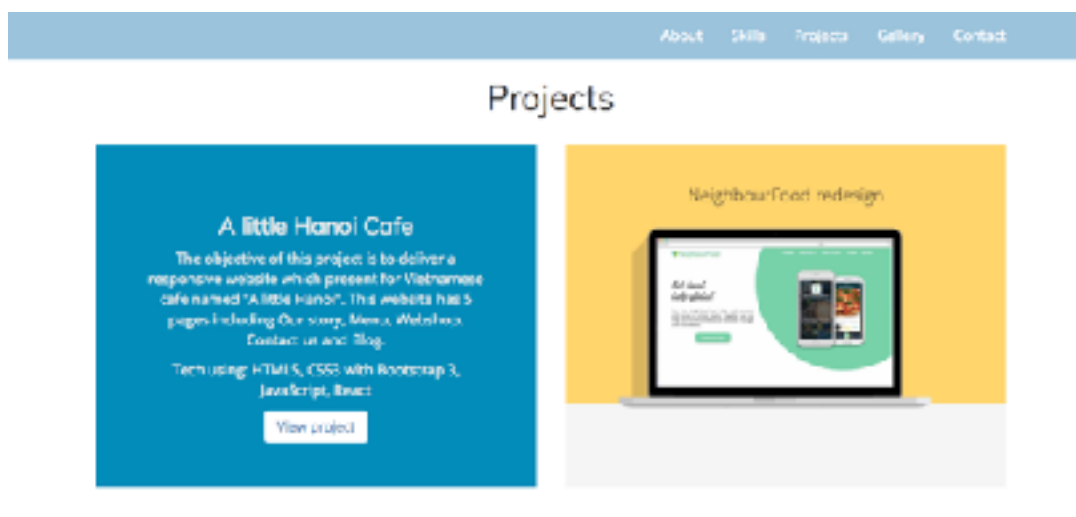


Coding

```
window.addEventListener("load", function (event) {  
    alert("All resources finished loading!");  
});
```

- **Show project description when hover the project**

Screenshots



## Coding

```
var imageHovers = document.getElementsByClassName("image-hover");

for (var i = 0; i < imageHovers.length; i++) {
  (function(x) {
    imageHovers[x].addEventListener("mouseover", function() {
      this.querySelector(".project-description").classList.add("show");
    });

    imageHovers[x].addEventListener("mouseout", function() {
      this.querySelector(".project-description").classList.remove("show");
    });
  })(i);
}
```

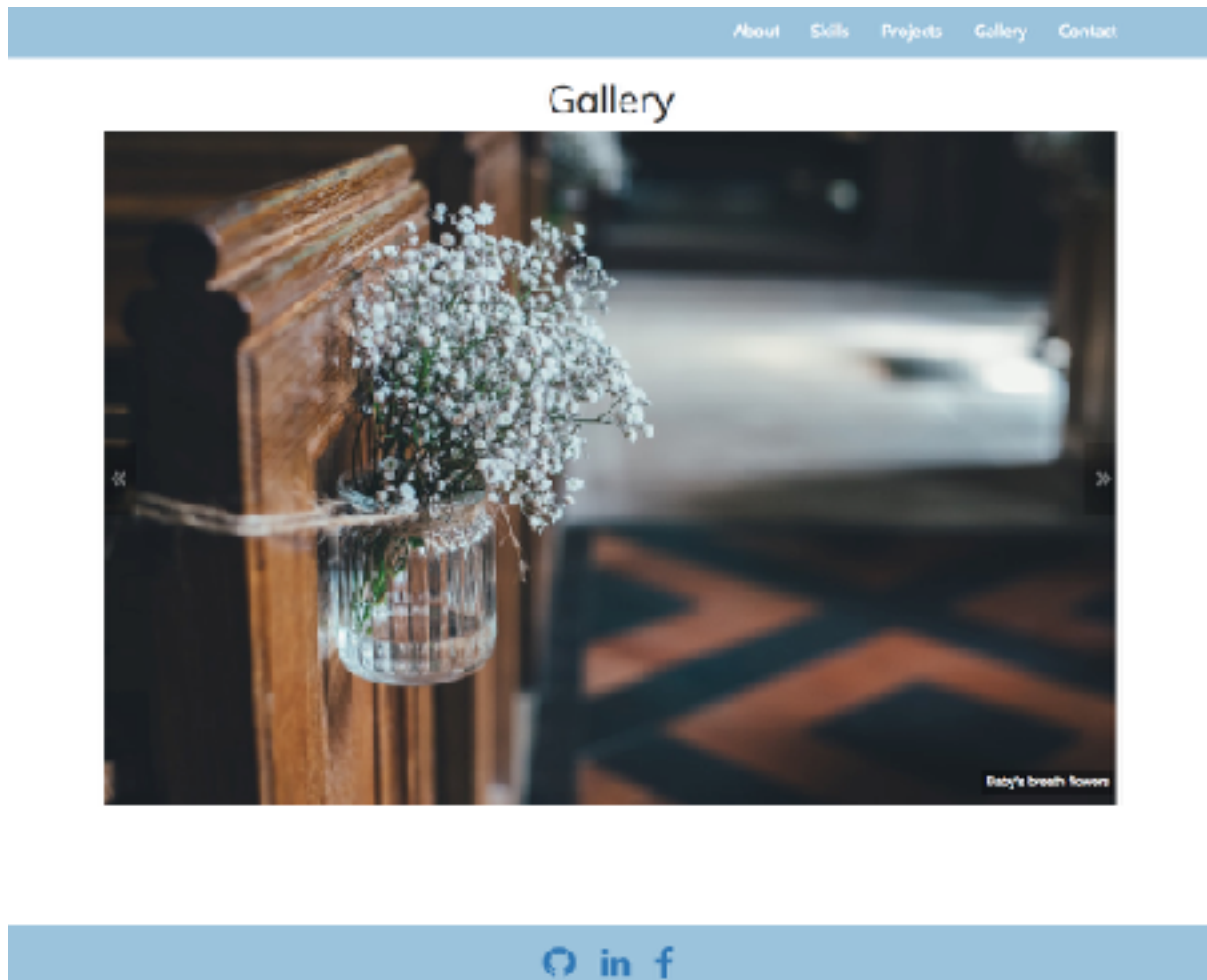
## 6. Gallery page

This page has image slideshow including my favourite images.

Functions:

- **Slideshow**

Screenshots



Coding

```
(function() {  
  var counter = 0,  
      $items = document.querySelectorAll(".diy-slideshow figure"),  
      numItems = $items.length;  
  
  var showCurrent = function() {  
    var itemToShow = Math.abs(counter % numItems);  
  
    [].forEach.call($items, function(el) {
```

```
el.classList.remove("show");  
});
```

```
$items[itemToShow].classList.add("show");  
};
```

```
document.querySelector(".next").addEventListener(  
  "click",  
  function() {  
    counter++;  
    showCurrent();  
  },  
  false  
);
```

```
document.querySelector(".prev").addEventListener(  
  "click",  
  function() {  
    counter--;  
    showCurrent();  
  },  
  false  
);  
})();
```

## 7. Contact page

Functions:

- **Validate form**

Screenshots

The screenshot shows a contact form titled "Contact me" with a light blue header bar containing navigation links: "About", "Skills", "Projects", "Gallery", and "Contact". The form fields and their validation messages are as follows:

- Last name:** Input field with placeholder "Enter your last name". Validation message: "Your last name is required and less than 25 characters."
- First name:** Input field with placeholder "Enter first name". Validation message: "Your first name is required and less than 25 characters."
- Email:** Input field with placeholder "Enter your email". Validation message: "Please enter a valid e-mail address."
- Website address:** Input field with placeholder "Enter your website address". Validation message: "Your website address is required and less than 50 characters."
- Gender:** Dropdown menu with "Male" selected. Validation message: "Your gender is required and must be one of the following: Male, Female."
- Age:** Input field with placeholder "Enter your age". Validation message: "Your age is required and between 18 and 100."
- Your message:** Textarea with placeholder "Your message". Validation message: "Your message is required and less than 255 characters."

At the bottom of the form are two buttons: "Reset" and "Send". The footer of the page features a light blue bar with social media icons for GitHub, LinkedIn, and Facebook.

Coding

```
function validateForm() {  
    var lname = document.forms["contact-form"]["lastname"].value;  
    var fname = document.forms["contact-form"]["firstname"].value;  
    var email = document.forms["contact-form"]["email"].value;  
    var age = document.forms["contact-form"]["age"].value;  
    var web = document.forms["contact-form"]["website"].value;  
    var message = document.forms["contact-form"]["message"].value;  
    var isValid = true;  
  
    if (lname.length < 1 || lname.length >= 25) {  
        document.querySelector("#lnameErr").textContent =  
            "Your last name is required and less than 25 characters.";  
        isValid = false;  
    }  
    if (fname.length < 1 || fname.length >= 25) {  
        document.querySelector("#fnameErr").textContent =  
            "Your first name is required and less than 25 characters.";  
        isValid = false;  
    }  
    if (!email.includes("@")) {  
        document.querySelector("#emailErr").textContent =  
            "Please enter a valid e-mail address.";  
        isValid = false;  
    }  
    if (web.length < 1 || web.length >= 50) {  
        document.querySelector("#webErr").textContent =  
            "Your website address is required and less than 50 characters.";  
        isValid = false;  
    }  
    if (age.length < 1 || age.length >= 100) {  
        document.querySelector("#ageErr").textContent =  
            "Your age is required and between 18 and 100.";  
        isValid = false;  
    }  
    if (message.length < 1 || message.length >= 255) {  
        document.querySelector("#messageErr").textContent =  
            "Your message is required and less than 255 characters.";  
        isValid = false;  
    }  
    if (!isValid) {  
        return false;  
    }  
    return true;  
}
```

```

        "Your last name is required and less than 25 characters.";
        document.querySelector("#lastname").focus();
        isValid = false;
    } else {
        document.querySelector("#lnameErr").textContent = "";
    }
}

```

```

if (fname.length < 1 || fname.length >= 25) {
    document.querySelector("#fnameErr").textContent =
        "Your first name is required and less than 25 characters.";
    document.querySelector("#firstname").focus();
    isValid = false;
} else {
    document.querySelector("#fnameErr").textContent = "";
}

```

```

if (email.indexOf("@", 0) < 0 || email.indexOf(".", 0) < 0) {
    document.querySelector("#emailErr").textContent =
        "Please enter a valid e-mail address.";
    document.querySelector("#email").focus();
    isValid = false;
} else {
    document.querySelector("#emailErr").textContent = "";
}

```

```

if (web.length < 1 || website.length >= 50) {
    document.querySelector("#websiteErr").textContent =
        "Your website address is required and less than 50 characters.";
    document.querySelector("#website").focus();
    isValid = false;
} else {
    document.querySelector("#websiteErr").textContent = "";
}

```

```

if (age == null || isNaN(age) || age < 18 || age > 100) {
    document.querySelector("#ageErr").textContent =
        "Your age is required and between 18 and 100.";
    document.querySelector("#age").focus();
    isValid = false;
}

```

```

    } else {
        document.querySelector("#ageErr").textContent = "";
    }
}

```

```

if (message.length < 1 || message.length >= 255) {
    document.querySelector("#messageErr").textContent =
        "Your message is required and less than 255 characters.";
    document.querySelector("#message").focus();
    isValid = false;
} else {
    document.querySelector("#messageErr").textContent = "";
}

```

```

return isValid;
}

```

## - Show confirmation after submitting form

Screenshots

The screenshot shows a web form titled "Contact me". It contains several input fields: "Last name" (placeholder: "Enter your last name"), "First name" (placeholder: "Enter first name"), "Email" (placeholder: "Enter your email"), "Website address" (placeholder: "Enter your website address"), "Gender" (a dropdown menu with "Male" selected), and "Age" (placeholder: "Enter your age"). Below these is a large text area for "Your message". At the bottom of the form are two buttons: "Reset" and "Send". Below the form, a green banner displays the message: "Sent! Your message has been sent to Huong. Have a nice day!"

## Coding

```

var myForm = document.querySelector("#contact-form");
var submitAlert = document.querySelector("#submit-alert");
if (myForm != null) {
    myForm.addEventListener("submit", function(event) {
        event.preventDefault();
        if (validateForm()) {

```

```
submitAlert.innerHTML =  
    '<div class="alert alert-success">\n  
    <strong>Sent!</strong> Your message has been sent to Huong. Have a nice day!\n  
    </div>';  
    myForm.reset();  
}  
});  
}
```