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Elektrotehnički fakultet Sarajevo  
Odsjek za računarstvo i informatiku  
**Praktikum - Napredne web tehnologije**

# Quotebook

Dokumentacija

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# Analiza

## *Opis i upotreba*

### Za šta se koristi?

It's a place to store and share your favorite quotes.  
Collect quotes that inspire YOU.  
Keep your quote collection organized.

Quotebook je lična kolekcija citata.

Svaki korisnik odabire u koje svrhe i koje citate želi sačuvati, organizovati, a po želji i podijeliti sa drugima.

Za ljubitelje citata više nema potrebe za slanjem emailova samom sebi, izgubljenih i razasutih stikera, te nepreglednih dokumenata.

Quotebook ima za cilj da olakša sakupljanje (dodavanje), centralizovanje, pretragu i pregled citata bilo koje vrste: izreke poznatih ličnosti, dirljivi izrazi djece, citati iz stručne literature, podvučene rečenice iz omiljene knjige...

Odlika ove aplikacije jeste da ne dolazi popunjena citatima, već omogućava korisniku da pravi vlastitu kolekciju ideja koje se njega tiču.

## Ko koristi?

- **Roditelji**

Kako bi zabilježili emotivne, smiješne i posebne izreke svoje djece ili druge značajne porodične trenutke.

- **Studenti**

Prilikom pretraživanja i rada na studentskim esejima, seminarskim radovima, stručnim i naučnim radovima, člancima...

- **Pisci**

U trenucima inspiracije za bilješke ideja za svoja djela.

- **Govornici**

Za pripremu predavanja/debata, referencirajući se na ranije spašene citate iz relevantnih izvora (knjiga, predavanja...) kao vid argumentacije.

- **Svi**

Kao izvor inspirativnih i motivacionih izreka značajnih upravo njihovoj ličnosti.

## Postojeća rješenja

### Quotebookapp

URL: <http://quotebookapp.com/>

Quotebook is where you collect quotes that matter. Curate, organize, and share the quotes

from your library in an app designed for readability. Build your collection over time, and

your favorite quotes will always be with you on all your devices.

- Add quotes seamlessly from life, books, and friends
- Discover more about the people and places that inspire you
- Share quotes with the people who matter, no matter where they are
- Tag and search quotes to find the perfect one when you need it most
- Collect quotes on your phone and they'll be waiting at home on your iPad
- Information about your authors and sources is automatically downloaded from Wikipedia

The app goes one step further and makes it super-simple to import quotes found in your iPhone's clipboard, and plays nicely with @author names, automatically opening a Twitter profile within a web view. Quotes can be searched and filtered, shared on Twitter, Facebook and Tumblr, or browsed by author and tag using the buttons in the bottom toolbar.

**NEDOSTATAK:** App samo za iPhone/iPad.

A screenshot of a quote by Vincent van Gogh on a social media application. The quote, "I long so much to make beautiful things. But beautiful things require effort — and disappointment and perseverance.", is displayed in a large, black, serif font. Above the quote is a small circular profile picture of Vincent van Gogh and his name. To the right of the quote is a red heart icon and a red plus icon. Below the quote, there are two rows of tags. The first row contains a red book icon followed by the word "Letters", and a red information icon. The second row contains a red tag icon followed by the words "Art", "Beauty", "Perseverance", and "New Tag". At the bottom of the quote area, there are five red star icons. The date and time "July 28, 2014 at 2:23 PM" are centered below the stars.

A screenshot of a social media post. At the top right, there are icons for sharing (a square with an upward arrow) and a plus sign. The main text of the post is "I dream my painting, and then I paint my dream." Below this, the user's profile is shown with a circular profile picture of a sun and the name "Vincent van Gogh". To the right of the name is an information icon (a lowercase 'i' in a circle). The post content is a small image of a painting titled "Marry Your Muse", which depicts a landscape with a body of water and a small building. To the right of the image is another information icon. Below the image, there is a tag icon (a red tag) and the text "No Tags". At the bottom of the post, there are five dots representing a carousel of images, with the first dot being larger. Below the dots, the timestamp "March 14, 2014 at 10:04 AM" is displayed.

Quotebook

Quotes

455 >

Authors

238 >

Sources

92 >

Tags

54 >

Design creates culture. Culture shapes values. Values determine the future.

Robert Peters

Save Quote

+

The value of a college education is not the learning of many facts but the training of the mind to think.

Albert Einstein

Unsourced

CollegeEducationThinkingNew Tag

June 10, 2014 at 10:04 AM

<

Authors

A

Aaron Sorkin

4

Ada Lovelace

3

Alan Kay

1

Albert Einstein

5

Aristotle

2

Arthur Conan Doyle

1

B

Banksy

1

Bo Burnham

2

C

Carl Sagan

1

Charles Darwin

3

D

David Foster Wallace

2

Dieter Rams

4

Douglas Adams

2

Dr. Seuss

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It's easier to do trivial things that are urgent than it is to do important things that are not urgent.

John Cleese

Unsourced

CreativityTimeNew Tag

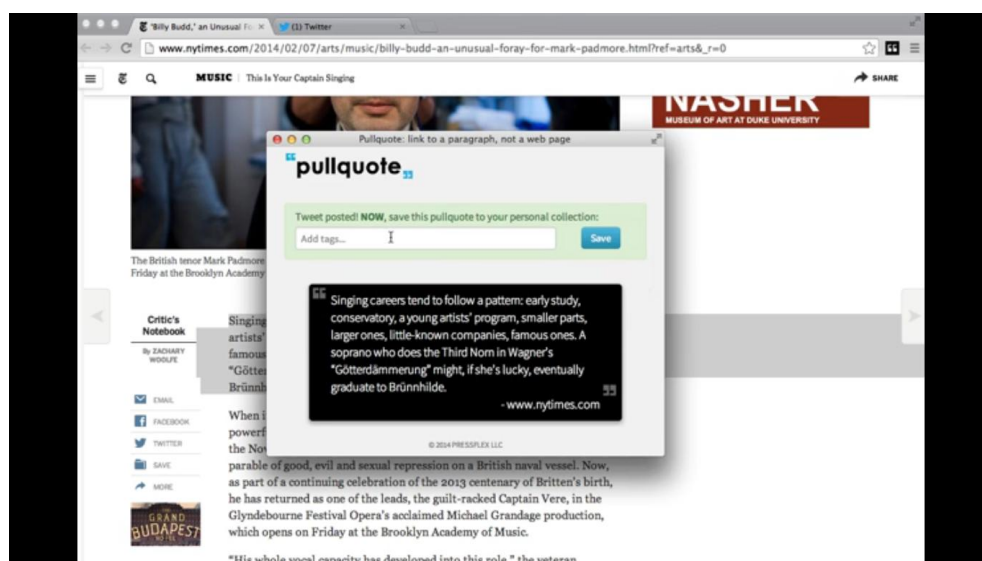
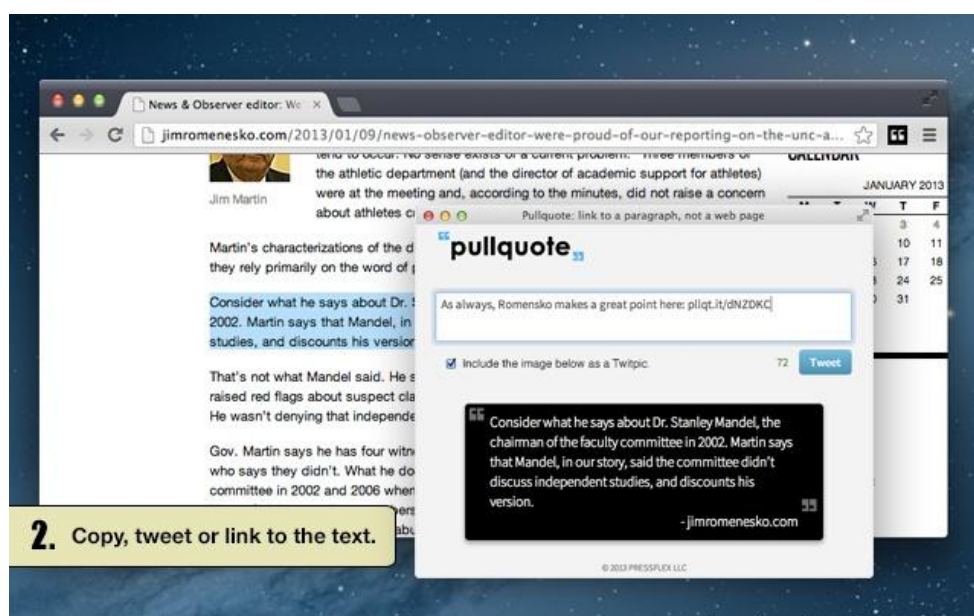
May 30, 2014 at 1:04 PM

## Pullquote

URL: <http://pullquote.com/>

Once you've installed the app and set it all up, just browse as you would usually. When you find a quote you like, highlight it and you'll see a menu with some options pop up. Simply select Tweet, make whatever modifications you like, and post. You can even save your favorite quotes with tags for easy access later. Pullquote also makes it easy to tweet an image. When you find an image you like, click the Quote It button in the corner of the image, crop as needed, and tweet it.

**NEDOSTATAK:** Ne može se organizovati po autorima; samo Chrome ekstenzija.





# Quotabl.es

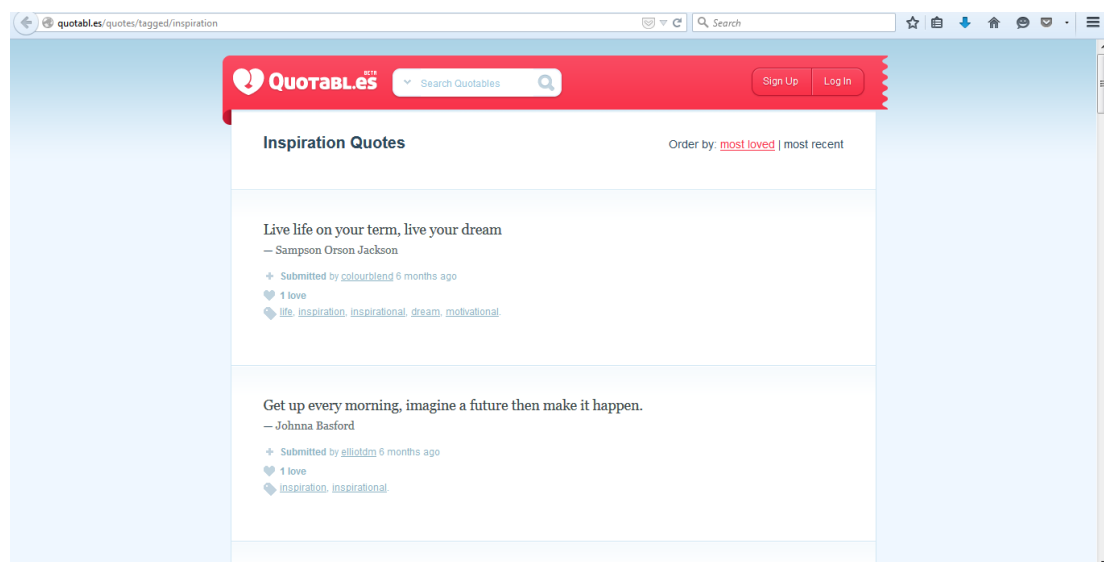
URL: <http://quotabl.es/>

Quotabl.es is a simple elegant way to create a collection of your favorite quotes.

Like Flickr for photos, Quotabl.es homepage shows recently activity on quotes you've submitted, along with recently added and popular quotes from across the site. Quotes are organised by tags.

Sharing quotes into the site is a breeze thanks to wonderfully minimalist bookmarklet. Each quote you share or discover on the site can be favorited, shared (into Twitter and Facebook), edited to correct/add further details, or added to a specific list of quotes you maybe working on.

**NEDOSTATAK:** Nema mogućnost spašavanja privatnih citata.



# Brainyquote

URL: <http://www.brainyquote.com/>

BrainyQuote is the largest, most user-friendly quotation site on the web. We are a quality educational resource and provide free access to our extensive database of prominent historical figures and today's newsmakers - famous celebrities, athletes, politicians, authors and other public figures.

Create and share more than 225,000 unique quote pictures and wallpapers with our beautiful gallery of high-resolution photographs. Email, text and share your creations with friends, family and social networks. Get Today's Quote - our inspiring quote of the day - in Notifications. You can share it, or save the image to create a stunning wallpaper for your iPhone or iPad.

**NEDOSTATAK:** Nema mogućnost dodavanja citata od strane korisnika.

The screenshot shows the BrainyQuote website interface. At the top, there's a navigation bar with links for Home, Authors, Topics, Quote of the Day, and Pictures. Below this is a search bar and a list of authors (A-Z). The main content area is titled "Malcolm X Quotes" and displays a grid of quote cards. Each card contains a quote, the author's name (Malcolm X), and a set of social media sharing icons (Facebook, Twitter, Google+, LinkedIn, and a general share icon). The quotes include:

- "Nobody can give you freedom. Nobody can give you equality or justice or anything. If you're a man, you take it."
- "The media's the most powerful entity on earth. They have the power to make the innocent guilty and to make the guilty innocent, and that's power. Because they control the minds of the masses."
- "Education is the passport to the future, for tomorrow belongs to those who prepare for it today."
- "There is no better than adversity. Every defeat, every heartbreak, every loss, contains its own seed, its own lesson on how to improve your performance the next time."
- "The future belongs to those who prepare for it today."
- "Be peaceful, be courteous, obey the law, respect everyone; but if someone puts his hand on you - send him to..."
- "I'm for truth, no matter who tells"

On the right side, there's a "Biography" section for Malcolm X, listing his nationality as American, type as Activist, born on May 19, 1925, and died on February 21, 1965. At the bottom right, there are "Grid" and "List" buttons to toggle the view of the quotes.

# ***Zahtjevi***

## **Korisnici**

Tipovi korisnika u sistemu:

1. Gost korisnik
2. Registrovani korisnik

Privilegije registrovanih korisnika u sistemu su:

1. Standardni korisnik
2. Administrator

Baza podataka dolazi sa osnovnim administratorskim računom.

### **Gost korisnik:**

1. Autentifikacija (samo registracija)

### **Standardni korisnik:**

1. Autentifikacija (sve osim registracije)
2. Korisnici
3. Autori
4. Citati
5. Tagovi

### **Administrator:**

1. Autentifikacija (sve osim registracije)
2. Administracija
3. Korisnici
4. Autori
5. Citati
6. Tagovi

## **Moduli i funkcionalnosti**

### **Static pages**

1. Home
2. About
3. Contact
4. Help

### **Modul 1: Autentifikacija**

1. Registracija
2. Potvrda registracije emailom
3. Settings
4. Log out
5. Log in
6. Reset lozinke

### **Modul 2: Administracija**

1. Grafički pregled top usera i top autora
2. Eksport usera u tekstualnu datoteku (CSV)
3. Pregled liste korisnika
4. Brisanje korisnika

### **Modul 3: Korisnici**

1. Pregled liste korisnika
2. Pregled profila
3. Follow

### **Modul 4: Autori**

1. Dodavanje
2. Pregled liste autora
3. Brisanje
4. Pregled odabranog
5. Uređivanje

## **Modul 5: Citati**

1. Dodavanje
2. Feed
3. Uređivanje
4. Brisanje
5. Eksport u tekstualnu datoteku (CSV)

## **Modul 6: Tagovi**

1. Dodavanje
2. Pregled citata za odabrani tag
3. Tags cloud

# Dizajn

## *Tehnološki stek*

**Frontend FW:** Bootstrap

**JavaScript FW:** AngularJS

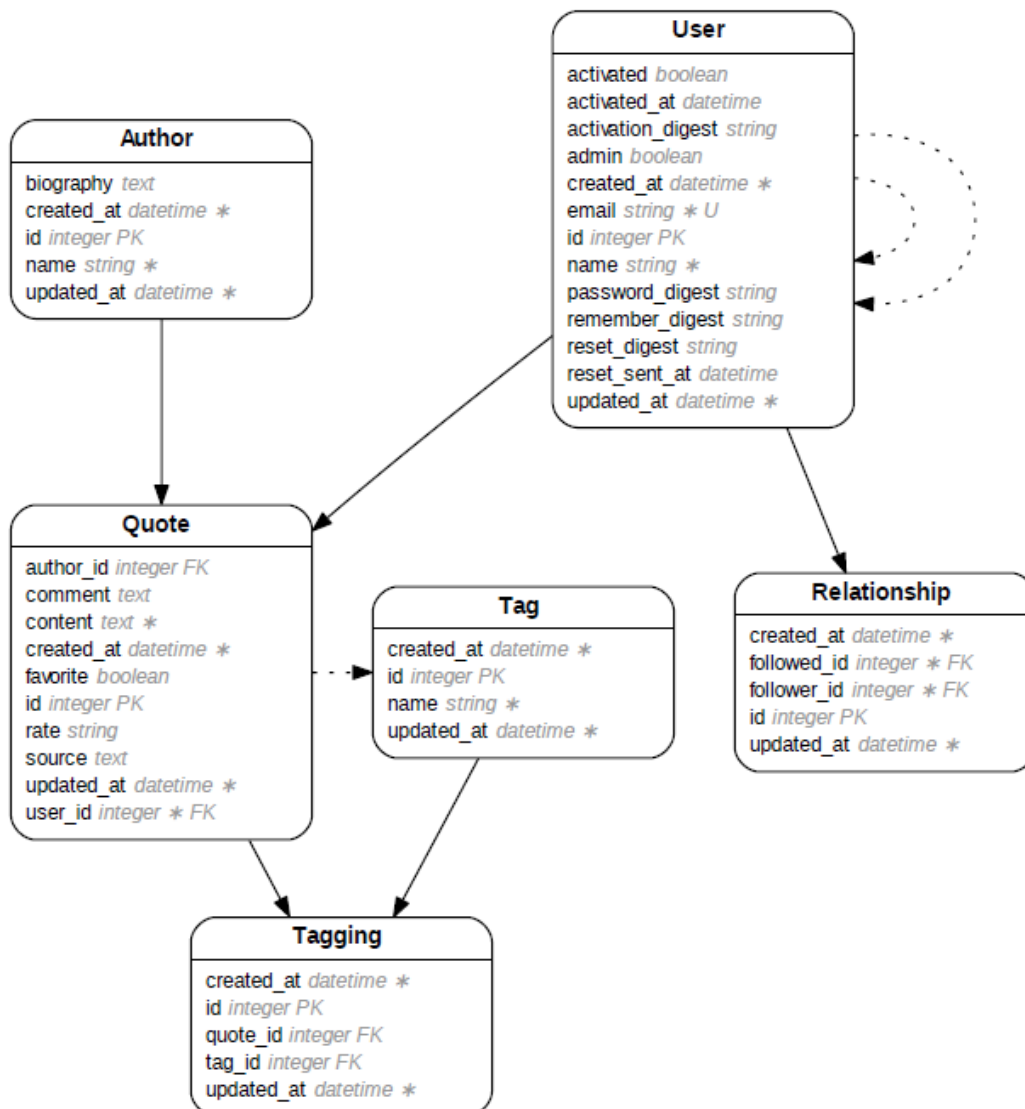
**Web FW:** Ruby on Rails

**ORM:** ActiveRecord

**Baza:** PostgreSQL

# ERD

Quotebook model diagram



## *REST servisi*

Tip	Path	Akcija	Parametri	Rezultat
GET	/users	index	-	Lista svih usera
POST	/users	create	name, email, password	Kreiranje zapisa o useru
GET	/users/new	new	-	Forma za novog usera
GET	/users/[user_id]/edit	edit	-	Forma za editovanje usera
GET	/users/[user_id]	show	user_id	Jedan user sa ID-em
PUT	/users/[user_id]	update	name, email, password	Ažuriranje zapisa o useru
DELETE	/users/[user_id]	destroy	user_id	Brisanje zapisa o useru

Tip	Path	Akcija	Parametri	Rezultat
GET	/authors	index	-	Lista svih autora
POST	/authors	create	name, biography	Kreiranje zapisa o autoru
GET	/authors/new	new	-	Forma za novog autora
GET	/authors/[author_id]/edit	edit	-	Forma za editovanje autora
GET	/authors/[author_id]	show	author_id	Jedan autor sa ID-em
PUT	/authors/[author_id]	update	name, biography	Ažuriranje zapisa o autoru
DELETE	/authors/[author_id]	destroy	author_id	Brisanje zapisa o autoru

Tip	Path	Akcija	Parametri	Rezultat
POST	/quotes	create	content, author_id, source, comment, user_id	Kreiranje zapisa o citatu
GET	/quotes/[quote_id]/edit	edit	-	Forma za editovanje citata
PUT	/quotes/[quote_id]	update	content, author_id, source, comment, user_id	Ažuriranje zapisa o citatu
DELETE	/quotes/[quote_id]	destroy	quote_id	Brisanje zapisa o citatu

Tip	Path	Akcija	Parametri	Rezultat
POST	/relationships	create		Kreiranje zapisa o vezi
DELETE	/relationships/[relationship_id]	destroy		Brisanje zapisa o vezi

Tip	Path	Akcija	Parametri	Rezultat
POST	/password_resets	create		Kreiranje zapisa o resetu
GET	/password_resets/new	new	-	Forma za novi reset



GET	/password_resets/[user_id] /edit	edit	-	Forma za editovanje reseta
PUT	/password_resets/[user_id]	update		Ažuriranje zapisa o resetu

Tip	Path	Akcija	Parametri	Rezultat
PUT	/account_activations/[user_id]	update		Ažuriranje zapisa o aktivaciji

Tip	Path	Akcija	Parametri	Rezultat
POST	/login	create		Kreiranje zapisa o loginu
GET	/login	new	-	Forma za novi login
DELETE	/login	destroy		Brisanje zapisa o loginu

# Implementacija

## *Razvojni alati i tehnologije*

**Operativni sistem:** Windows 7 x64

**Revision control software:** GitHub

<https://github.com/>

**GitHub Client for Windows:** Verzija 2.0.0

<https://windows.github.com/>

**RailsInstaller for Windows x64:** Verzija 3.0.0

<http://railsinstaller.org/en>

<https://s3.amazonaws.com/railsinstaller/Windows/railsinstaller-3.0.0.exe>

**Rails:** Verzija 4.2.1

**Ruby:** Verzija 2.0.0p598 (2014-11-13) [i386-mingw32]

**RubyGems:** Verzija: 2.4.6

**Web server:** WEBrick

**IDE:** Aptana for Windows, verzija 3.6.1

<http://www.aptana.com/products/studio3/download.html>

**Git for Windows:** Verzija 1.9.5

<http://git-scm.com/>

**Baza podataka:** PostgreSQL for Windows x64, verzija 9.4.1

<http://www.postgresql.org/download/windows/>

# Literatura

[1] Android apps

<https://play.google.com/store/search?q=quotes&c=apps>

[2] Quotebook - a simple app that lets you enter quotes

<https://play.google.com/store/apps/details?id=app.statzapps.quotebook>

[3] Inspirational Quotes

<https://play.google.com/store/apps/details?id=com.azwstudios.galaxyinspirationquotes>

[4] iPhone/iPad apps

<https://itunes.apple.com/us/genre/ios-reference/id6006?mt=8&letter=Q&page=3#page>

[5] Quotebookapp

<http://quotebookapp.com/>

<https://itunes.apple.com/us/app/quotebook-notebook-for-quotes/id423726272?mt=8>

<http://minimalmac.com/post/24114361750/quotebook-2-o-is-out-and-it-is-a-huge-update-to>

<http://www.macstories.net/links/quotebook-2-o/>

<http://gizmodo.com/5792630/quotebook-for-iphone>

<http://www.theverge.com/2012/5/31/3052484/quotebook-for-ipad>

[6] Quotenote

<http://www.topleftsoft.com/quotenote>

<http://appadvice.com/appnn/2011/08/quickadvice-quotenote>

[7] Organizing Quotes On A Mac

<http://www.brianstucki.com/blog/organizing-quotes-on-a-mac/>

[8] Pullquote

<http://lifehacker.com/pullquote-makes-sharing-quotes-and-images-on-twitter-qu-1677183452>

<http://pullquote.com/>

[9] Quotabl.es

<http://quotabl.es/>

<http://thenextweb.com/lifehacks/2010/11/02/quotabl-es-probably-the-coolest-way-to-collect-quotes-you-can-quote-me-on-that/>

[10] Quotes.ly

<http://quotes.ly/>

[11] MyQuoteBox  
<http://www.myquotebox.com/>

[12] Findings  
<http://findings.com/>  
[http://www.borthwick.com/weblog/2011/10/25/findings\\_launch/](http://www.borthwick.com/weblog/2011/10/25/findings_launch/)  
<http://www.stevenberlinjohnson.com/2011/10/introducing-findings.html>  
<http://web.appstorm.net/reviews/save-your-favorite-quotes-with-findings/>  
<http://www.economistgroup.com/leanback/the-next-big-thing/want-to-collect-quotes-from-your-kindle-or-the-web-findings-can-help/>

[13] Instapaper  
<https://www.instapaper.com/>  
<https://itunes.apple.com/us/app/instapaper/id288545208?mt=8%3FpartnerId%3D30>  
<http://blog.instapaper.com/>

[14] Quotica  
<http://www.quoti.ca/>  
<http://www.businessinsider.com/collect-your-favorite-quotes-online-with-quotica-2011-6>

[15] Quoty  
<http://quoty.co/>

[16] Spoken.ly  
<https://www.spoken.ly/?in=welcome>

[17] Wordpress plugins

Perfect quotes: <https://wordpress.org/plugins/perfect-quotes/>  
Quotes Collection: <https://wordpress.org/plugins/quotes-collection/>  
VR-Frases (collect & share quotes): <https://wordpress.org/plugins/vr-frases/>

[18] Brainyquote  
<http://www.brainyquote.com/>

[19] Quotesabout  
<http://quotesabout.us/>

[20] Install Ruby on Rails, Postgresql, and Aptana on Windows  
<https://youtu.be/qd6WF32-fmo>

[21] Revision control software: GitHub  
<https://github.com/>

[22] GitHub Client for Windows (v2.0.0):

<https://windows.github.com/>

[23] RailsInstaller for Windows x64 (v3.0.0):

<http://railsinstaller.org/en>

<https://s3.amazonaws.com/railsinstaller/Windows/railsinstaller-3.0.0.exe>

[24] IDE: Aptana for Windows (v3.6.1)

<http://www.apтана.com/products/studio3/download.html>

[25] Git for Windows (v1.9.5):

<http://git-scm.com/>

[26] Baza podataka: PostgreSQL for Windows x64 (v9.4.1)

<http://www.postgresql.org/download/windows/>

[27] Entity-Relationship Diagrams for Ruby on Rails

<http://rails-erd.rubyforge.org/>