



Software Development Life Cycle (SDLC)

Disusun oleh:

Anthony Gilrandy Theo - 2201734814

Dewi Puspita Tanurezal- 2201740546

Devita - 2201755131

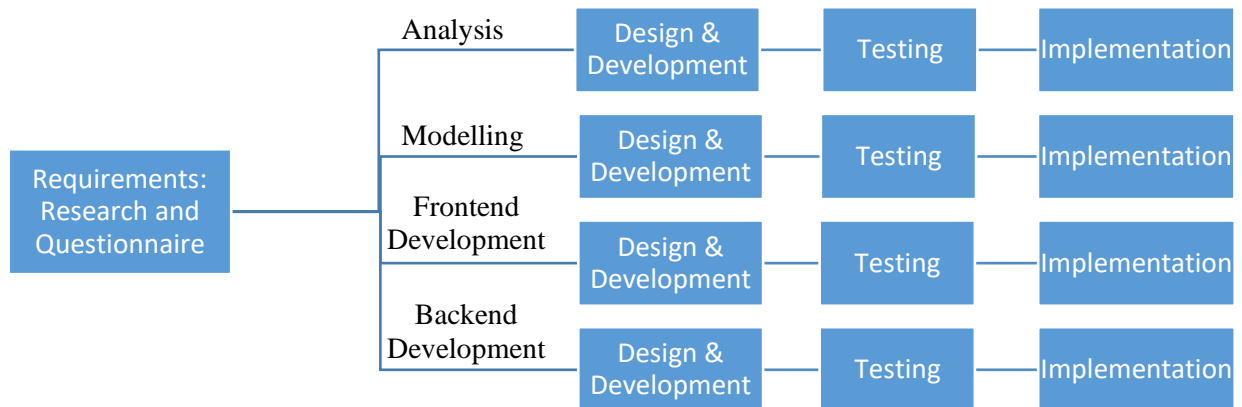
Steven - 2201852132

LA06

Software Engineering

Software development life cycle (SDLC) : Incremental model

Pada SDLC incremental model, proses pengerjaan software dilakukan pembagian sehingga bagian selanjutnya dikerjakan setelah bagian awal telah selesai hingga tahap terakhir sehingga menghasilkan software yang lengkap dan berfungsi dengan baik sesuai kebutuhannya.



Dari diagram di atas, SDLC yang terjadi adalah dimulai dari requirements yaitu dengan research dan questionnaire. Selanjutnya, berlanjut pada tahap analysis, modelling, backend development, dan frontend development yang dapat dilakukan secara parallel oleh orang berbeda sesuai perannya. Pada setiap tahap bagian tersebut terdapat proses design & development, testing, dan implementation yang dilakukan pertahap.

Tahapan SDLC:

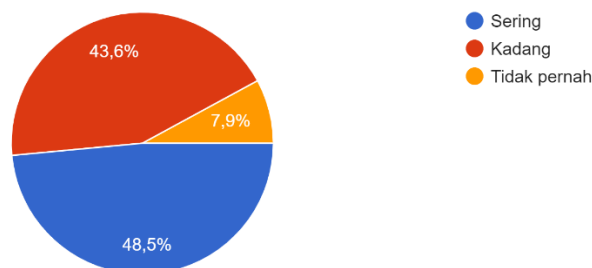
1. Requirements: Research and questionnaire

Untuk mengetahui kebutuhan pembuatan software OpenRead, dilakukan research terlebih dahulu dan questionnaire melalui survei yang telah dilaksanakan pada bulan November 2020.

Beberapa pertanyaan serta respon yang diberikan yaitu:

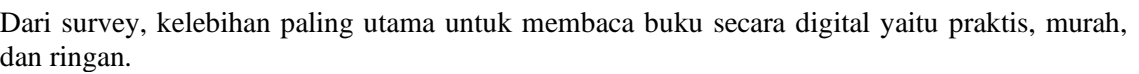
Apakah anda sering membaca cerita melalui website / mobile app?

101 tanggapan

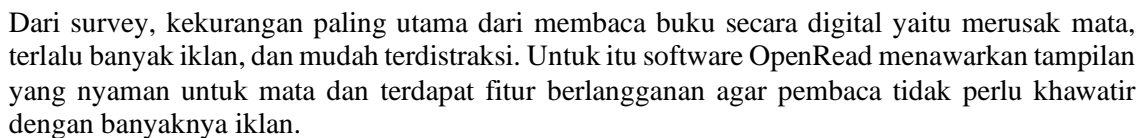


Dari responden, sebanyak 48,5 % menyatakan sering membaca cerita melalui website/ mobile app. Hal ini menunjukkan software yang akan sesuai dengan minat pasar.

101 tanggapan



101 tanggapan



Berdasarkan survey yang telah dilaksanakan software OpenRead menawarkan kepraktisan untuk membaca secara digital yang sesuai dengan keinginan pasar. Selain itu, beberapa kekurangan yang mungkin muncul sudah dirancangan solusinya.

Pada tahap ini dibagi menjadi 3 bagian sesuai dengan SDLC modelnya:

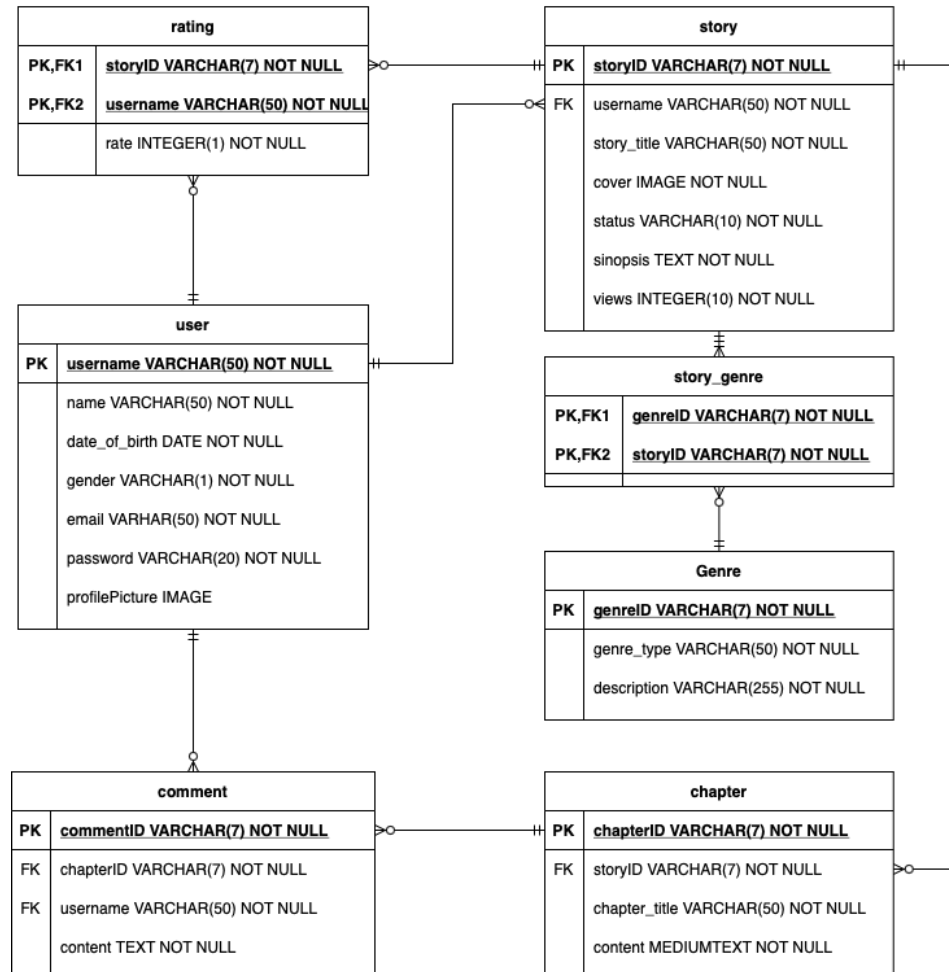
- Tahap analisis menganalisa berdasarkan respon pasar dan juga kemampuan pembuat software. Dari kedua hal tersebut dibuat planning pembuatan software dan dokumen yang diperlukan.

Planning:

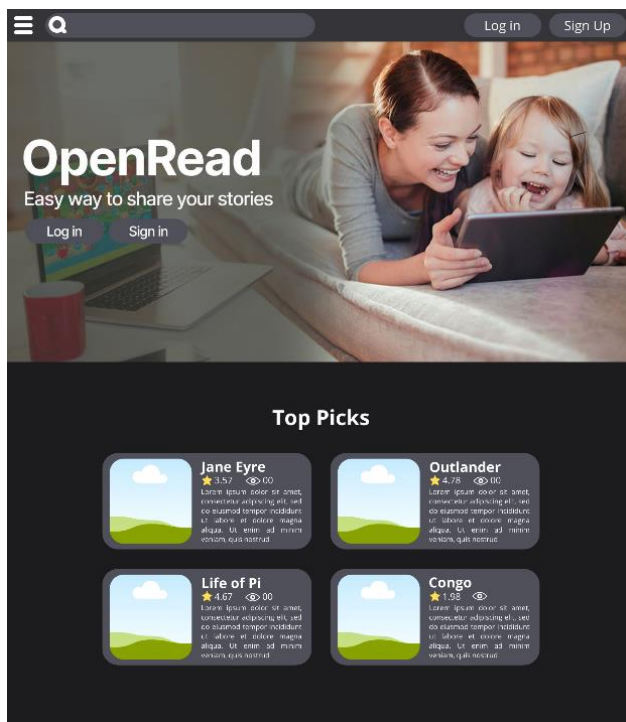
[illegible]

- Modelling
Modelling yang dilakukan disesuaikan dengan survey pasar yaitu tampilan yang nyaman untuk membaca dan juga pembuatan diagram yang diperlukan.

ERD OpenRead



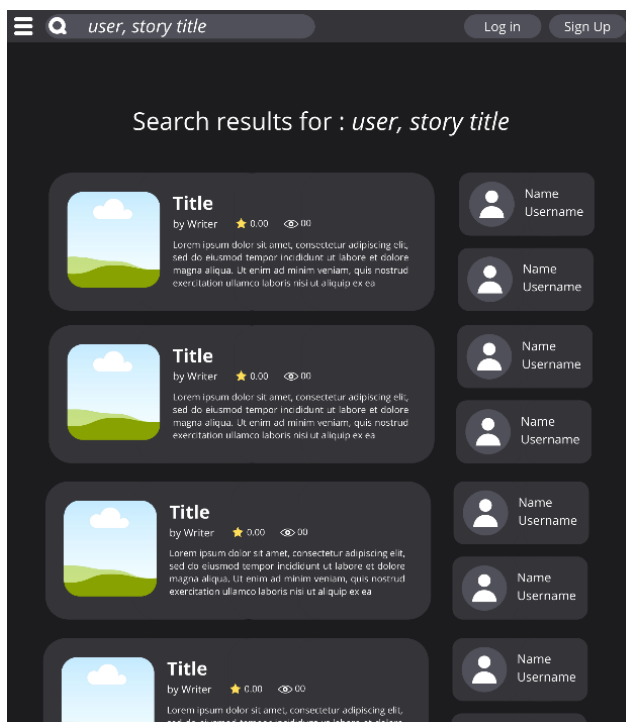
User Interfaces: Visitor



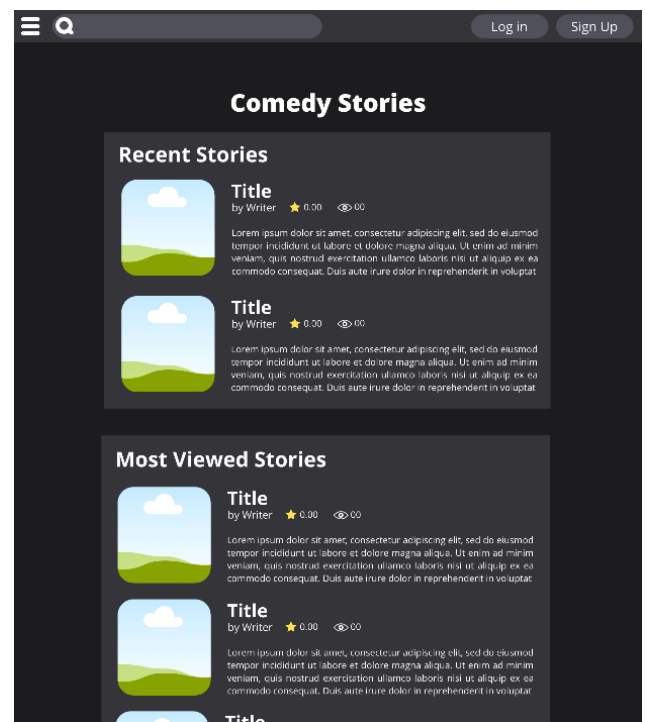
Home page



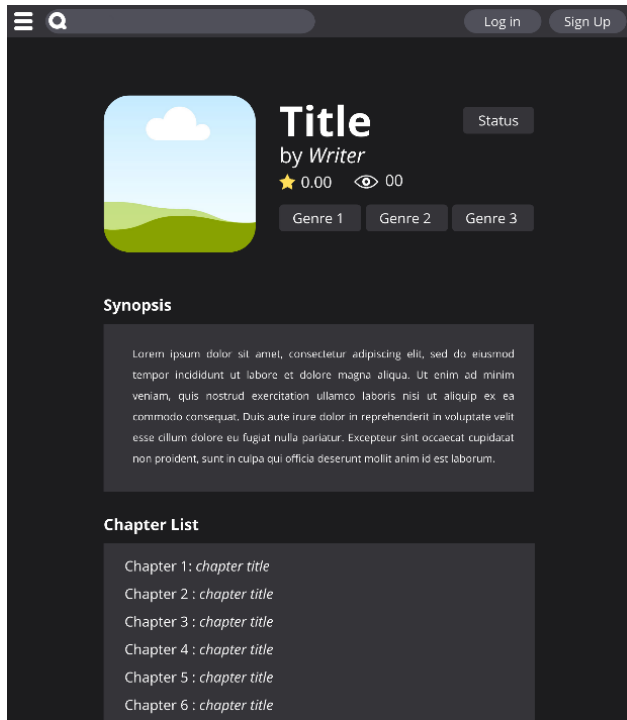
Side menu home page



Search results



Story pada genre



Pilihan chapter untuk read story



Read story

User

 A dark-themed web interface for the 'Sign Up' page. The top navigation bar includes a menu icon, a search icon, and buttons for 'Log in' and 'Sign Up'. The main heading is 'Sign Up'. Below the heading, there are several form fields: 'Name', 'Username', 'E-mail', 'Date of Birth' (with dropdowns for Day, Month, and Year), 'Gender' (with radio buttons for Male and Female), 'Password', and 'Confirm password'. A 'Sign Up' button is positioned at the bottom of the form.

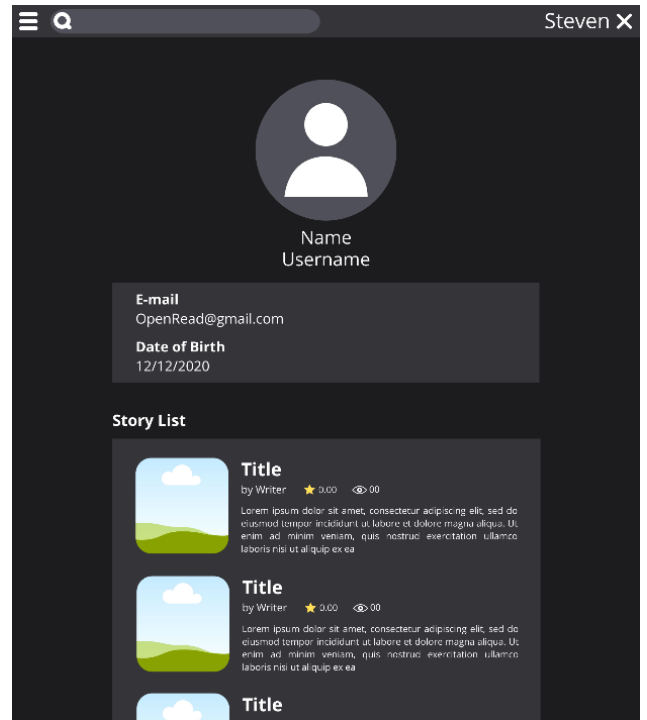
Sign up page

 A dark-themed web interface for the 'Log in' page. The top navigation bar includes a menu icon, a search icon, and buttons for 'Log in' and 'Sign Up'. The main heading is 'Log in'. Below the heading, there are three form fields: 'Username / E-mail', 'Password', and 'Forgot Password'. A 'Log in' button is located at the bottom of the form.

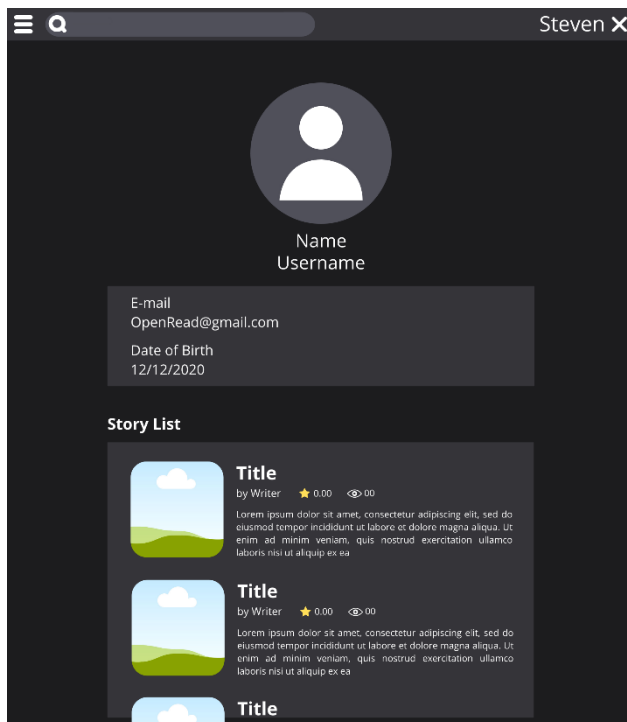
Log in page



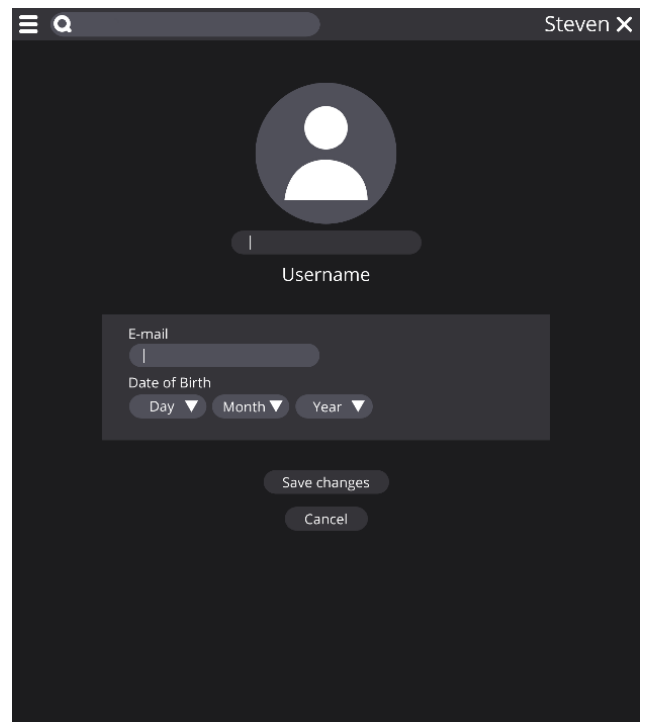
Side menu pada home page



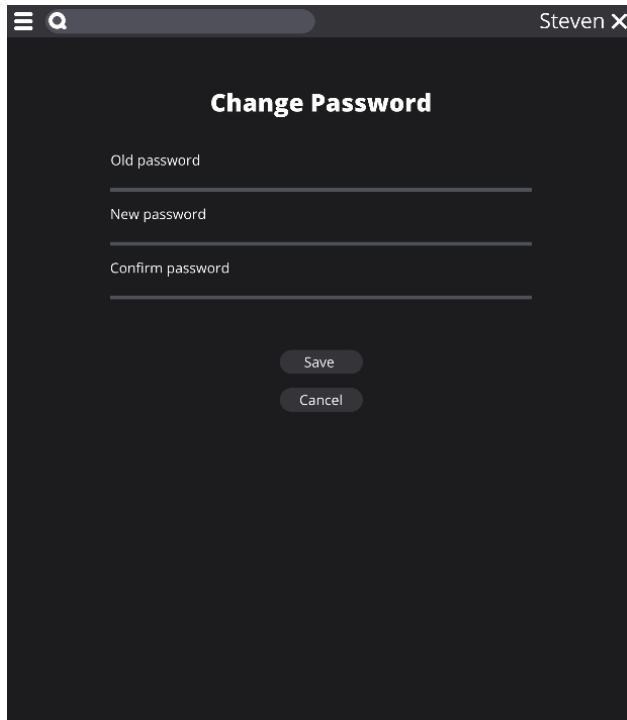
Profile user oleh user lain



Profile user



Edit profile



Steven X

Change Password

Old password

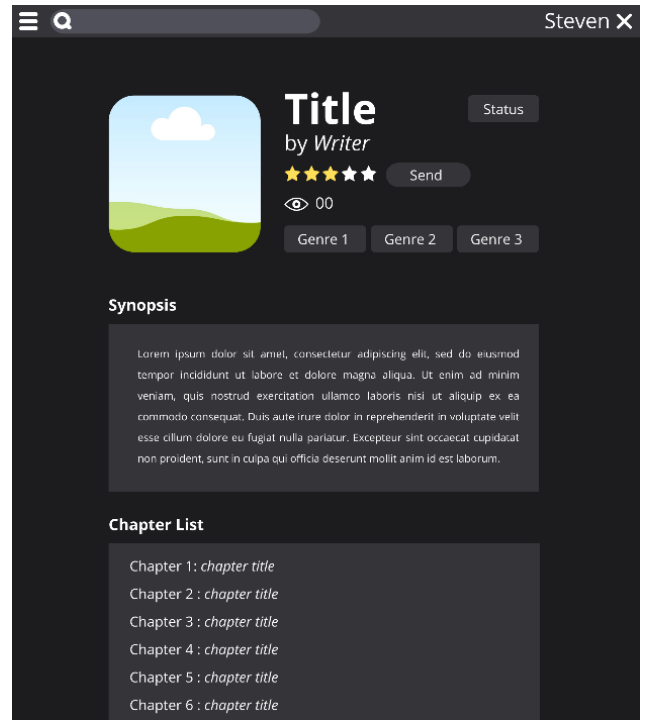
New password

Confirm password


Save

Cancel

Change password



Steven X



Title

by Writer

★★★★★

Send

00

Genre 1 Genre 2 Genre 3

Status

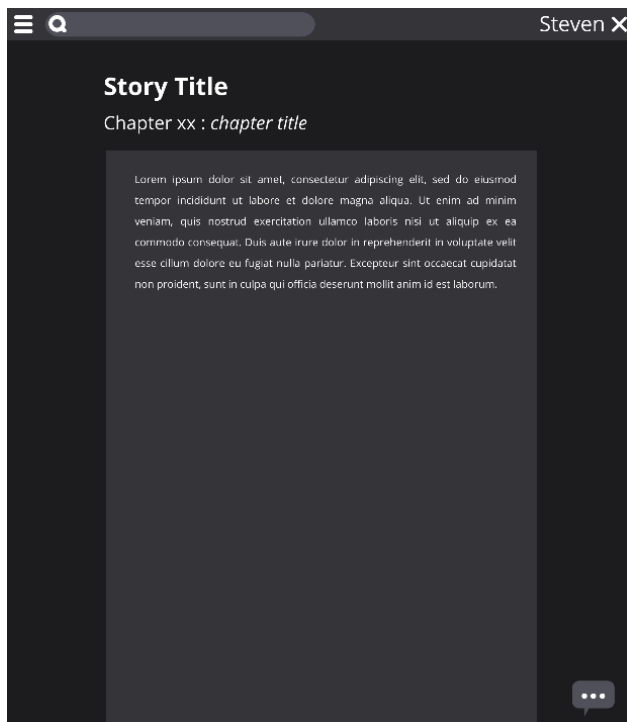
Synopsis

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Chapter List

- Chapter 1: chapter title
- Chapter 2: chapter title
- Chapter 3: chapter title
- Chapter 4: chapter title
- Chapter 5: chapter title
- Chapter 6: chapter title

Pilihan chapter untuk read story



Steven X

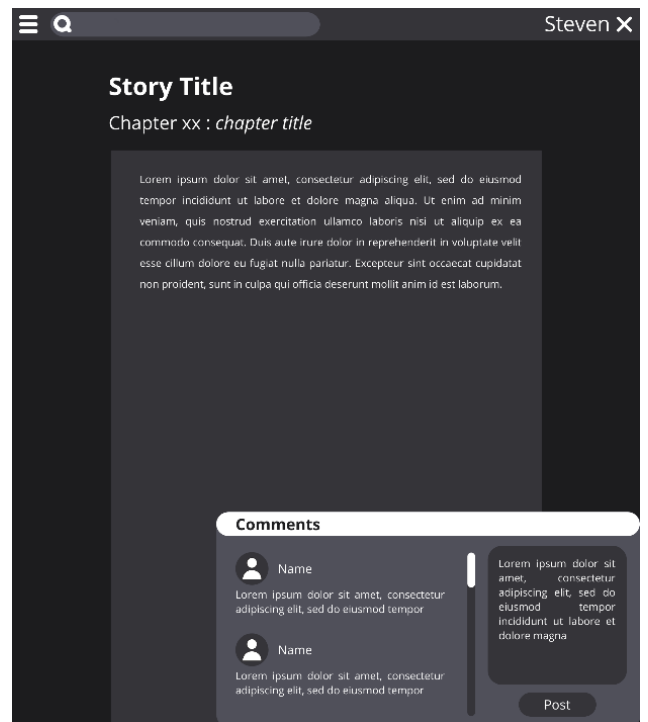
Story Title

Chapter xx : chapter title

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

...

Read story



Steven X

Story Title

Chapter xx : chapter title

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Comments

Name

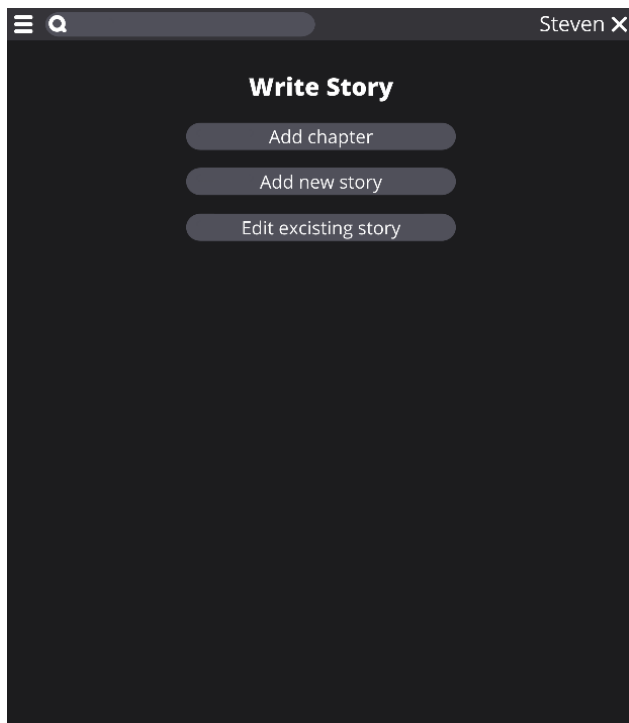
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor

Name

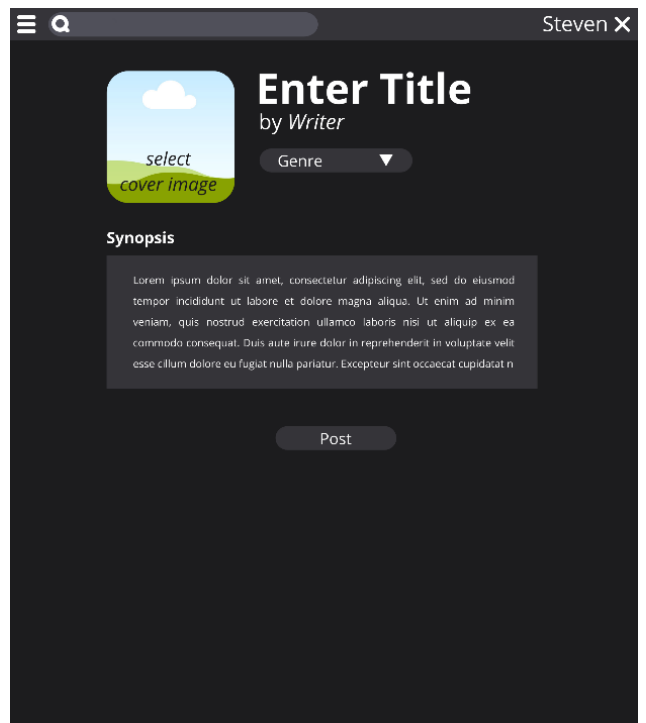
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor

Post

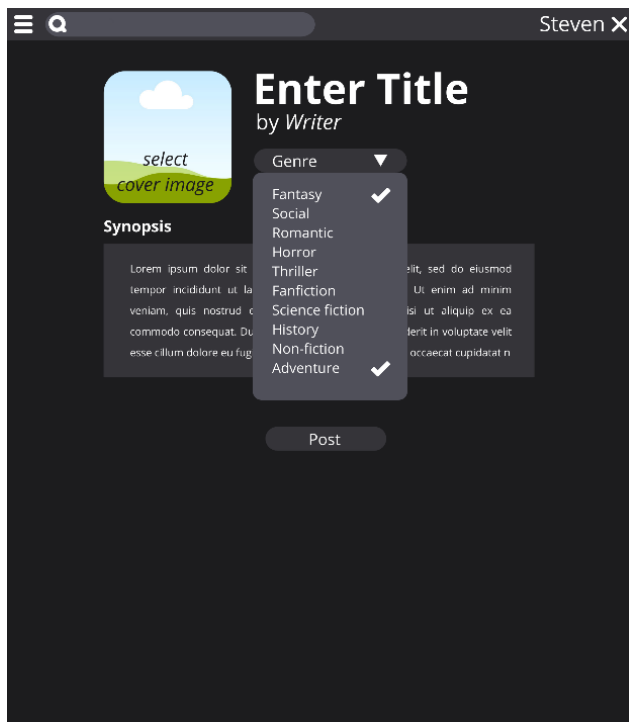
Comment section



Pilihan untuk write story



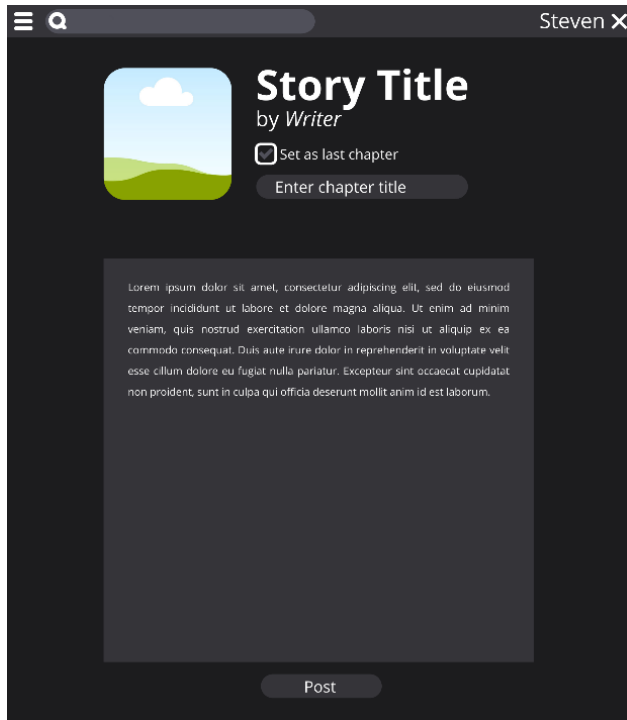
Write new story



Pilihan genre write new story



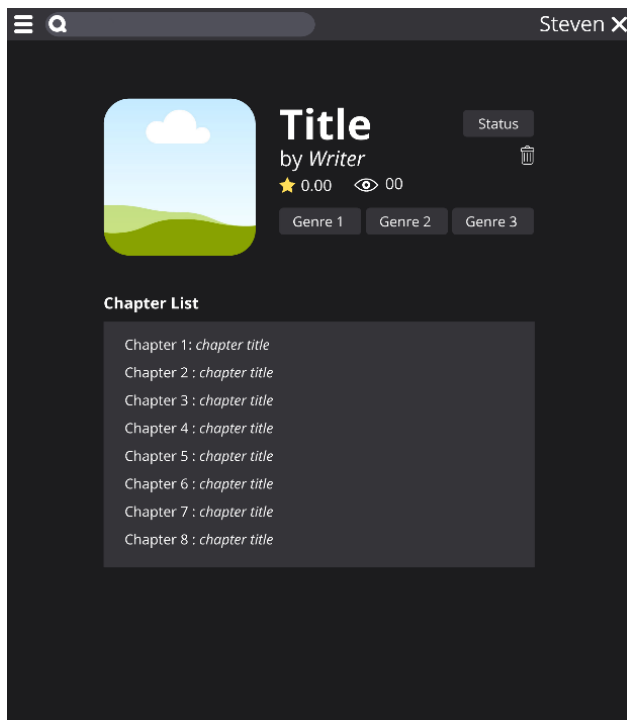
Pilihan story untuk add chapter



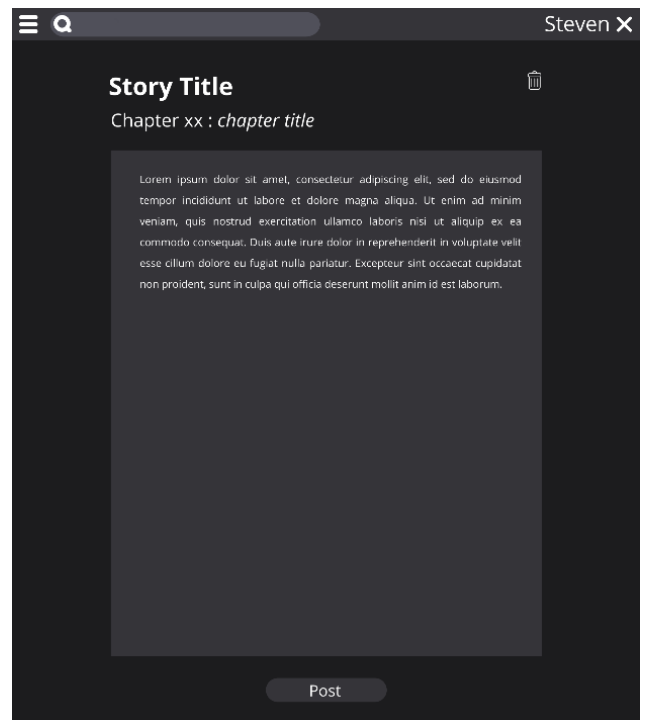
Add chapter



Pilihan story untuk diedit



Pilihan chapter edit story



Edit story

- Frontend development

Tahap ini membuat pengubahan dari data ke antarmuka grafis melalui penggunaan program untuk software. Bagian ini merupakan bagian yang langsung dilihat oleh user. User juga bisa langsung berinteraksi pada bagian ini.

```

chapter.blade.php X
Code > OpenRead > resources > views > user > reader > chapter.blade.php > div#commentModal.modal.fade > div.modal-dialog > div.modal-content.text
202. ....function storeComment(formId){
203. ....var form = document.getElementById(formId);
204. ....var fd = new FormData(form);
205. ....
206. ....$.ajax({
207. ....url: "{{route('save-comment')}}",
208. ....type: "POST",
209. ....data: fd,
210. ....contentType: false,
211. ....cache: false,
212. ....processData: false,
213. ....beforeSend: function(){
214. ....ShowCreateCommentMessage(true, 'Posting Comment..');
215. ....$('#create-comment-button').prop('disabled', true);
216. ....},
217. ....success: function(data){
218. ....ShowCreateCommentMessage(true, 'Posting success. Your new comment will be shown on top of the list.');
```

- Tahap ini membuat bagian belakang layer dari sebuah website dalam bentuk code.

```

Terminal Help ReaderController.php - OpenRead - Visual Studio Code

ReaderController.php X
Code > OpenRead > app > Http > Controllers > User > ReaderController.php > ReaderController > getComment

107 .....public function getComment(Request $request)
108 .....{
109 .....    $result = ['success' => false];
110 .....    try {
111 .....        $page = $request->query('p');
112 .....        $chapter_id = $request->query('c');
113 .....        if (is_null($page))
114 .....            throw new \Exception('No page given');
115 .....        if (is_null($chapter_id))
116 .....            throw new \Exception('No chapter given');
117 .....        if (intval($page) == 0)
118 .....            throw new \Exception('Invalid page input');
119 .....        else {
120 .....            $temp = $this->readerService->GetCommentsByChapterID($chapter_id, intval($page), $this->commentTakeLimit);
121 .....            $result['comments'] = $temp['comments'];
122 .....            $result['has_more'] = $temp['has_more'];
123 .....        }
124 .....        $result['success'] = true;
125 .....        return response()->json(['result' => $result], 200);
126 .....    } catch (\Exception $e) {
127 .....        return response()->json([
128 .....            'result' => $result,
129 .....            'message' => $e->getMessage()
130 .....        ], 200);
131 .....    }
132 .....}

ReaderService.php X
Code > OpenRead > app > Service > Modules > ReaderService.php > ReaderService > GetCommentsByChapterID

161 .....
162 .....public function GetCommentsByChapterID($chapter_id, $page = 1, $take = -1)
163 .....{
164 .....    $comments = null;
165 .....    $allCommentsCount = 0;
166 .....    if ($take == -1) {
167 .....        $comments = $this->commentRepository->FindAllByChapter($chapter_id);
168 .....        $allCommentsCount = $comments->count();
169 .....    }
170 .....    else {
171 .....        $comments = $this->commentRepository->FindAllByChapterOffsetByLimitBy($chapter_id, ($page - 1) * $take, $take);
172 .....        $allCommentsCount = $this->commentRepository->FindAllCommentCountByChapter($chapter_id);
173 .....    }
174 .....    $usernames = $comments->pluck('username');
175 .....    $users = $this->userRepository->FindAllByUsernames($usernames);
176 .....    return [
177 .....        'comments' => $comments->map(function ($item, $key) use ($users)
178 .....        {
179 .....            $user = $users->firstWhere('username', $item->username);
180 .....            return [
181 .....                'comment_id' => $item->comment_id,
182 .....                'username' => $user->username,
183 .....                'author_name' => $user->name,
184 .....                'profile_picture' => $user->profile_picture,
185 .....                'chapter_id' => $item->chapter_id,

```

3. Testing

Pada tahap testing, dilakukan pengujian terhadap segala bidang bagian. Baik analysis, modelling, frontend development, maupun backend. Testing ini bertujuan untuk mengetahui adakah bagian dari software ini yang sekiranya masih perlu diperbaiki.

Testing plan yang dilakukan adalah:

Test Environment

- Browser on Desktop
- Browser on Mobile

Function Testing

Function	Register Account
Description	Page of Registering Account whenever a visitor pressed Sign Up. Visitor must input their desired username, email, password, and date of birth.
Success Criteria	>Inputted data is successfully registered on Database >There can be no duplicate email/username registered.

Function	Login
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Description	Page of Login whenever a user pressed Login. User must input their username/email and password that they have registered.
Success Criteria	>Authentication is working (When wrong password is entered, it won't direct to the home page of user) >Direct to the homepage with status Logged In as user.

Function	Search Story
Description	Page of searching story that the user/visitor desired.
Success Criteria	>Keyword should be appearing in any of the search result >If keyword doesn't present in any of the story in the database, "No results found" shall appear.

Function	Write Comments
Description	Section of a story where user can writes their comments about the story/chapter.
Success Criteria	>Comment should be registered to the database. >Comment should appear in the story/chapter page.

Function	Update Comments
Description	Section of a story where user can edit their comments about the story/chapter.
Success Criteria	>New comment should be registered to the database. >Old comment should be deleted from the database >New Comment should appear in the story/chapter page.

Function	Rate Story
Description	Section of a story where user can rate 1-5 about the story.
Success Criteria	>Rating should be registered to the database. > If the user has rated before, and he/she wished to rate again, the old rating will be deleted and the new rating will be registered from the database. > Rating of the story should change according to the average of the total rating.

Function	Edit Profile
Description	Page of editing profile where user that has logged in can edit change their profile picture, email, and name.
Success Criteria	>New data should be registered in the database. >Old data should be deleted from the database. >If the name is changed, the Hello,(name) from right top section of the page should change immediately.

Function	Change Password
Description	Page of change password where user can change their password
Success Criteria	>Authentication must be valid (Current password must be the same from database) >Current Password is deleted and New Password is registered to the database. >Current Password (Old Password) shouldn't be able to be used again to log in.

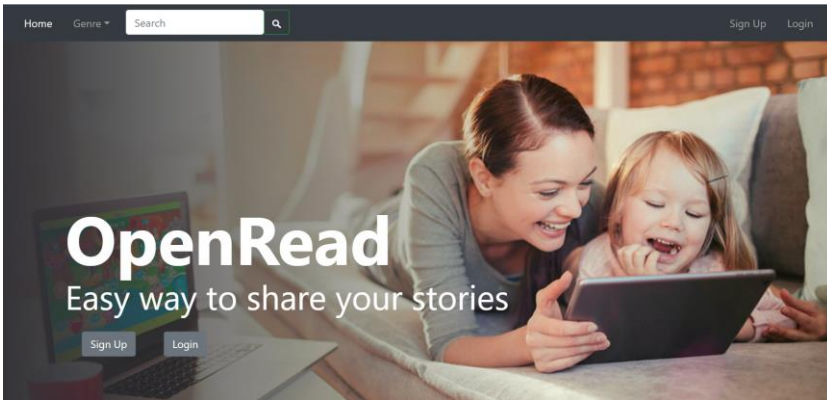
Function	Write Story
Description	Page of write story where user can write story
Success Criteria	>Visitor shouldn't be able to write story >Inputed Data is registered correctly to the database (Cover Picture, Title, Genre, Synopsis) >Writer's name is the same as the user's name.

Function	Edit Story
Description	Page of edit story where user can edit the story/chapter.
Success Criteria	>Old content will be deleted and the new content will be registered from the database. >Old content should not be showing up immediately after the page has been refreshed. >New content should show up immediately after the page has been refreshed.

4. Implementation

Terakhir, pada tahap ini dilakukan implementasi dari segala yang telah dibuat dan juga telah memperbaiki hal yang kurang dalam tahap testing. Hasil dari tahap ini merupakan bentuk final dimana software yang dibuat sudah dapat digunakan oleh user.

Bentuk website yang dibuat:



Top Picks



Iron Man 1

by ironman ★ 3.60 6
Tony Stark, who has inherited the defense contractor Stark Industries from his father Howard Stark, is in war-torn Afghanistan with his friend and military liaison, Lieutenant Colonel James Rhodes, to demonstrate the new "Jericho" missile. After the demonstration, the convoy is ambushed and Stark is critically wounded by a missile used by the attackers: one of his company's own. He is captured and imprisoned in a cave by a terrorist group called the Ten Rings. Yinsen, a fellow captive doctor, implants an electromagnet into Stark's chest to keep the shrapnel shards that wounded him from reaching his heart and killing him. Ten Rings leader Raza offers Stark freedom in exchange for building a Jericho missile for the group, but he and Yinsen know that Raza will not keep his word.



Multivariate Statistics

by stevenla06 ★ 0.00 4
Multivariate statistics is a subdivision of statistics encompassing the simultaneous observation and analysis of more than one outcome variable. The application of multivariate statistics is multivariate analysis. Multivariate statistics concerns understanding the different aims and background of each of the different forms of multivariate analysis, and how they relate to each other. The practical application of multivariate statistics to a particular problem may involve several types of univariate and multivariate analyses in order to understand the relationships between variables and their relevance to the problem being studied.



story title

by devita ★ 0.00 2
test test test test



First Story

by anthonygt ★ 4.00 1
This is a first story. It will make you surprised