1. 下載Oracle VM
2. 下載Ubuntu
3. 新增VM  
   名稱：SaaScourse  
   類型：Linux  
   版本：ubuntu  
   Memory：1024  
   <http://vimeo.com/34754478>
4. 工具列->Devices->Install Guest Additions…  
   ---------------------------------新專案-------------------------------------------------
5. 新專案  
   rails new myrottenpotatoes
6. 新模組  
   rails generate controller welcome
7. 編輯Gemfile, 加入以下code
8. *# use Haml for templates*
9. gem 'haml'
10. *# use Ruby debugger*
11. group **:development**, **:test** **do**
12. gem 'ruby-debug19'
13. **end**
14. 修改Gemfile檔案之後，要執行bundle  
    bundle install
15. *config/routes.rb*新增設定,將首頁導至movies
16. **Myrottenpotatoes::Application**.routes.draw **do**
17. resources **:movies**
18. root **:to** **=>** redirect**(**'/movies'**)**
19. **end**
20. 增加controller class  
    路徑：app/views/controllers  
    def index  
    end
21. 增加view  
    路徑：app/views/movies  
    名稱：index.html.haml
22. 新增migration  
    rails g migration create\_movies
23. **class** CreateMovies **<** **ActiveRecord::Migration**
24. **def** up
25. create\_table 'movies' **do** **|**t**|**
26. t.**string** 'title'
27. t.**string** 'rating'
28. t.text 'description'
29. t.datetime 'release\_date'
30. *# Add fields that let Rails automatically keep track*
31. *# of when movies are added or modified:*
32. t.timestamps
33. **end**
34. **end**
36. **def** down
37. drop\_table 'movies' *# deletes the whole table and all its data!*
38. **end**
39. **end**
40. 執行ＳＱＬ  
    rake db:migrate
41. 新增model  
    路徑：app/models  
    名稱：movie.rb

c**lass** Movie **<** **ActiveRecord::Base**

1. **end**
2. rails console (異動資料庫)
3. *####  Create*
4. starwars = Movie.create!**(:title** **=>** 'Star Wars',
5. **:release\_date** **=>** '25/4/1977', **:rating** **=>** 'PG'**)**
6. *# note that numerical dates follow European format: dd/mm/yyyy*
7. requiem =  Movie.create!**(:title** **=>** 'Requiem for a Dream',
8. **:release\_date** **=>** 'Oct 27, 2000', **:rating** **=>** 'R'**)**
9. *#  Creation using separate 'save' method, used when updating existing records*
10. field = Movie.new**(:title** **=>** 'Field of Dreams',
11. **:release\_date** **=>** '21-Apr-89', **:rating** **=>** 'PG'**)**
12. field.save!
13. field.title = 'New Field of Dreams'
14. *####  Read*
15. pg\_movies = Movie.where**(**"rating = 'PG'"**)**
16. ancient\_movies = Movie.where**(**'release\_date < :cutoff and rating = :rating',
17. **:cutoff** **=>** 'Jan 1, 2000', **:rating** **=>** 'PG'**)**
18. pg\_movies\_2 = Movie.find\_by\_rating**(**'PG'**)**
19. Movie.find**(**3**)**  *# exception if key not found; find\_by\_id returns nil instead*
20. *####  Update*
21. starwars.update\_attributes**(:description** **=>** 'The best space western EVER',
22. **:release\_date** **=>** '25/5/1977'**)**
23. requiem.rating = 'NC-17'
24. requiem.save!
25. *####  Delete*
26. requiem.destroy
27. Movie.where**(**'title = "Requiem for a Dream"'**)**
28. *####  Find returns an enumerable*
29. Movie.find\_all\_by\_rating**(**'PG'**)**.each **do** **|**mov**|**
30. mov.destroy
31. **end**
32. 修改controllers
33. *# This file is app/controllers/movies\_controller.rb*
34. **class** MoviesController **<** ApplicationController
35. **def** index
36. **@movies** = Movie.all
37. **end**
38. **end**
39. 修改views
40. **%**h2 All Movies
42. **%**table*#movies*
43. **%**thead
44. **%**tr
45. **%**th Movie Title
46. **%**th Rating
47. **%**th Release **Date**
48. **%**th More Info
49. **%**tbody
50. **-** **@movies**.each **do** **|**movie**|**
51. **%**tr
52. **%**td= movie.title
53. **%**td= movie.rating
54. **%**td= movie.release\_date
55. **%**td= link\_to "More about #{movie.title}", movie\_path**(**movie**)**
56. 修改layout  
    路徑： app/views/layouts/application.html.erb  
      
      
      
      
      
    --------增加SHOW---------------------
57. !!! 5
58. **%**html
59. **%**head
60. **%**title Rotten Potatoes!
61. = stylesheet\_link\_tag 'application'
62. = javascript\_include\_tag 'application'
63. = csrf\_meta\_tags
65. **%**body
66. = **yield**
67. 修改controller
68. *# in app/controllers/movies\_controller.rb*
70. **def** show
71. id = params**[:id]** *# retrieve movie ID from URI route*
72. **@movie** = Movie.find**(**id**)** *# look up movie by unique ID*
73. *# will render app/views/movies/show.html.haml by default*
74. **end**
75. 增加views
76. **-***# in app/views/movies/show.html.haml*
78. **%**h2 Details about *#{@movie.title}*
80. **%**ul*#details*
81. **%**li
82. Rating:
83. = **@movie**.rating
84. **%**li
85. Released on:
86. = **@movie**.release\_date.strftime**(**"%B %d, %Y"**)**
88. **%**h3 Description:
90. **%p***#description= @movie.description*
92. = link\_to 'Back to movie list', movies\_path
93. 修改CSS樣式
94. */\* Simple CSS styling for RottenPotatoes app \*/*
95. */\* Add these lines to app/assets/stylesheets/application.css \*/*
97. html, body {
98. **margin**: 0;
99. **padding**: 0;
100. **background**: White;
101. **color**: DarkSlateGrey;
102. **font-family**: Tahoma, Verdana, sans-serif;
103. **font-size**: 10pt;
104. }
105. div#main {
106. **margin**: 0;
107. **padding**: 0 20px 20px;
108. }
109. a {
110. **background**: transparent;
111. **color**: maroon;
112. **text-decoration**: underline;
113. **font-weight**: bold;
114. }
115. h1 {
116. **color**: maroon;
117. **font-size**: 150%;
118. **font-style**: italic;
119. **display**: block;
120. **width**: 100%;
121. **border-bottom**: 1px solid DarkSlateGrey;
122. }
123. h1.title {
124. **margin**: 0 0 1em;
125. **padding**: 10px;
126. **background-color**: orange;
127. **color**: white;
128. **border-bottom**: 4px solid gold;
129. **font-size**: 2em;
130. **font-style**: normal;
131. }
132. table#movies {
133. **margin**: 10px;
134. **border-collapse**: collapse;
135. **width**: 100%;
136. **border-bottom**: 2px solid **black**;
137. }
138. table#movies th {
139. **border**: 2px solid white;
140. **font-weight**: bold;
141. **background-color**: wheat;
142. }
143. table#movies th, table#movies td {
144. **padding**: 4px;
145. **text-align**: **left**;
146. }
147. #notice, #warning {
148. **background**: rosybrown;
149. **margin**: 1em 0;
150. **padding**: 4px;
151. }
152. form label {
153. **display**: block;
154. **line-height**: 25px;
155. **font-weight**: bold;
156. **color**: maroon;
157. }
158. 首頁增加“新增電影”連結
159. **-***# add to end of index.html.haml*
161. = link\_to 'Add new movie', new\_movie\_path
162. 在 controller增加class new
163. **def** new
164. *# default: render 'new' template*
165. **end**
166. 設計new頁面  
     路徑：app/views/movies/new.html.haml  
       
       
       
       
       
     ------------新增create相關----------------------------
167. **%**h2 Create New Movie
169. = form\_tag movies\_path, **:method** **=>** **:post** **do**
171. = label **:movie**, **:title**, 'Title'
172. = text\_field **:movie**, **:title**
174. = label **:movie**, **:rating**, 'Rating'
175. = **select** **:movie**, **:rating**, **[**'G','PG','PG-13','R','NC-17'**]**
177. = label **:movie**, **:release\_date**, 'Released On'
178. = date\_select **:movie**, **:release\_date**
180. = submit\_tag 'Save Changes'
181. 新增create view  
     路徑：app/views/movies/create.html.haml
182. 新增create至controller  
       
       
       
       
       
       
       
       
     ------------新增flash相關----------------------------
183. *# in movies\_controller.rb*
184. **def** create
185. **@movie** = Movie.create!**(**params**[:movie])**
186. redirect\_to movies\_path
187. **end**
188. add flash
189. *# in movies\_controller.rb*
190. **def** create
191. **@movie** = Movie.create!**(**params**[:movie])**
192. flash**[:notice]** = "#{@movie.title} was successfully created."
193. redirect\_to movies\_path
194. **end**
195. 修改layouut  
     路徑： app/views/layouts/application.html.erb
196. **-***# this goes just inside %body:*
197. **-** **if** flash**[:notice]**
198. *#notice.message= flash[:notice]*
199. **-** **elsif** flash**[:warning]**
200. *#warning.message= flash[:warning]*
201. 修改notice的底色  
     路徑： app/views/assets/stylesheets/application.css
202. 新增連結：編輯，返回,delete

**-** = button\_to 'Delete', movie\_path**(**@movie**)**, **:method** **=>** **:delete**, **:confirm** **=>** 'Are you sure?'

1. **-***# modify last 2 lines of app/views/movies/show.html.haml to:*
2. = link\_to 'Edit info', edit\_movie\_path**(**@movie**)**
3. = link\_to 'Back to movie list', movies\_path
4. edit conyroller
5. **def** destroy
6. **@movie** = Movie.find**(**params**[:id])**
7. **@movie**.destroy
8. flash**[:notice]** = "Movie '#{@movie.title}' deleted."
9. redirect\_to movies\_path
10. **end**
11. *# in movies\_controller.rb*
13. **def** edit
14. **@movie** = Movie.find params**[:id]**
15. **end**
17. **def** update
18. **@movie** = Movie.find params**[:id]**
19. **@movie**.update\_attributes!**(**params**[:movie])**
20. flash**[:notice]** = "#{@movie.title} was successfully updated."
21. redirect\_to movie\_path**(**@movie**)**
22. **end**
23. add edit.html.haml